Mitigation Monitoring Annual Report Year 1 (2024): Dairy Creek Mitigation Bank

1: *Dairy Creek Mitigation Bank* Identifiers:

DSL Permit # 61846RF Corps Permit # NWP-2019-127 Permittee: DCMB, LLC
County: Washington
Report Date: January 17, 2025
Monitoring Year: 1
Date Removal-Fill Activity Completed: N/A mitigation bank
Date mitigation was completed: September 2023
Date(s) of data collection: multiple dates between 7/22/24 and 11/26/24
Report prepared by: C. Jonas Moiel

2: Monitoring Report Purpose:

This monitoring report is for a project that includes: (check all that apply):

- ❑ Compensatory **freshwater, non-tidal** wetland mitigation for permanent wetland impacts.
- ❑ Compensatory **estuarine** wetland mitigation for permanent wetland impacts.
- ❑ **Only non-wetland** compensatory mitigation.
- ❑ **Only** mitigation for **temporary** impacts that had a monitoring requirement.
- ❑ **Voluntary** wetland enhancement, creation or restoration (General authorization or individual permit) not funded with money from DSL's wetland mitigation fund.
- ❑ Voluntary wetland enhancement, creation or restoration (General authorization or individual permit) funded with money from DSL's **wetland mitigation fund**.
- **X** **Mitigation Bank** Report
- ❑ Other _____

3: Results:

	Performance standards (verbatim from permit)	Fully Met? (Y/N)	Comments/Reason for shortfall (mark NA if doesn't apply this year)
VEGETATION PERFORMANCE STANDARDS			
Herbaceous (PEM) Wetlands			
1.1	The standard for native cover for Year 1 shall be 40%; Year 2 shall be 50%; and Year 3 and thereafter shall be 60%.	Y	Average cover of native species in 30 sample plots in PEM habitat class for Year 1 was 55%. At an 80% confidence level, the upper confidence interval (CI) was 61% and the lower CI was 50%. This meets Year 1 standard.
1.2	The cover of non-native invasive species during the 1st and 2nd years shall not exceed 30%. For Year 3 and thereafter, the non-native invasive cover shall not exceed 10%.	Y	Average cover of invasive species in the PEM class for Year 1 rounded to 1%. At an 80% confidence level, the upper confidence interval (CI) was 2% and the lower CI was 0%. This meets the Year 1 standard.

1.3	Bare substrate represents no more than 20% cover by the 3rd year after planting and thereafter.	n/a	Not applicable in Year 1. However, the bare ground in PEM averaged 19%, which is meeting the Year 3 standard.
1.4	The standard for diversity in herbaceous wetlands is at least 6 native species, or groupings of native species, each with 5% or more average cover in the herbaceous wetlands by the 3rd year after planting and thereafter.	n/a	Not applicable in Year 1. Three native species met the diversity criteria in Year 1.
1.5	The hydrophytic vegetation standard is that the Prevalence Index is $\leq$ 3.0 and/or the vegetation passes the "50/20 rule" for dominance of hydrophytic vegetation.	Y	The average rounded Prevalence Index (PI) for the habitat class this year was 2 (FACW). This meets the final standard.
Forested (PFO) Wetlands, Shrub dominated (PSS) Wetlands, and Buffers			
2.1	The combined cover of native species for Year 1 shall be 40%; Year 2 shall be 50%; and Year 3 and thereafter shall be 60%.	PFO: N PSS: Y Buffer: Y	**PFO:** Average native cover in the herbaceous plots was 33% (CI range: 27%-39%). There was an average of 5% cover of native woody species (CI range: 5%-6%). The combined native cover is **38%.** **PSS:** Average native cover in the herbaceous plots was 51% (CI range: 45%-57%). There was an average of 3% cover of native woody species (CI range: 2%-3%). The combined native cover is **54%.** **Buffer:** Average native cover in the herbaceous plots was 61% (CI range: 52%-70%). There was an average of 4% cover of native woody species (CI range: 4%-5%). The combined native cover is **65%.**
2.2	The combined cover of non-native invasive species will not exceed 30% by Year 3 and thereafter.	PFO:Y PSS:Y Buffer: Y	**PFO:** The average cover of invasives in the herb plots rounded to 2% (CI range: 1%-3%). The average invasive cover in the woody plots rounds to 0% (CI range: 0%-0%). **PSS:** The average cover of invasives in the herb plots rounded to 0% (CI range: 0%-0%). The average invasive cover in the woody plots rounds to 0% (CI range: 0%-0%). **Buffer:** The average cover of invasives in the herb plots rounded to 1% (CI range: 0%-2%). The average invasive cover in the woody plots rounds to 0% (CI range: 0%-0%).
2.3	Bare substrate represents no more than 20% cover by the 3rd year, unless the tree/shrub canopy cover (shade) is greater than 70% in which case there is no bare ground standard.	PFO: n/a PSS: n/a Buffer: n/a	**PFO**: Not applicable in Year 1. Bare ground averaged 21%. **PSS:** Not applicable in Year 1. Bare ground averaged 26%. **Buffer:** Not applicable in Year 1. Bare ground averaged 12%.
2.4	By Year 3 and thereafter, there are at least 6 different native species or groupings of native species. To qualify, a species must have at least 5% average cover in the habitat class.	PFO: n/a PSS: n/a Buffer: n/a	**PFO:** Not applicable at Year 1. Three species met the diversity standard in the herbaceous layer. **PSS**: Not applicable at Year 1. Four species met the diversity standard in the herbaceous layer. **Buffer:** Not applicable at Year 1. Four species met the diversity standard in the herbaceous layer.

2.5	The density of woody vegetation is at least 1,600 native plants (shrubs) and/or stems (trees) per acre, including native volunteers and seedlings, and will have a trend of increasing canopy cover. After the aerial canopy cover (***including*** shrub cover) is 50% or greater, there will be no minimum number of plants/stems.	PFO: N PSS: Y Buffer: N	**PFO:** There was an average of 1,503 plants or stems/acre. Average percent woody cover was 5% (CI Range: 5%-6%). **PSS:** There was an average of 1,678 plants or stems/acre. Average percent woody cover was 3% (CI Range: 2%-3%). **Buffers:** There was an average of 894 plants or stems/acre. Average percent woody cover was 4% (CI Range: 4%-5%).
2.6	The hydrophytic vegetation standard for PSS and PFO wetlands is that the Prevalence Index is $\leq$ 3.0 and/or the vegetation passes the "50/20 rule" for dominance of hydrophytic vegetation.	PFO: Y PSS: Y Buffer: n/a	**PFO:** The Prevalence index in the herb layer averaged 3 (FAC), and in the woody layer averaged 2 (FACW). **PSS:** The Prevalence index in the herb layer averaged 3 (FAC), and in the woody layer averaged 2 (FACW).
Stream Mitigation: Riparian Standards for Annual and Biennial "Wet Zones"			
4.1	Riparian Vegetation Annual "Wet Zone": Native cover and bare ground standards do not apply to the "wet zone" within the W. Fork Dairy Creek and constructed channels, or approximately equivalent to elevations less than or equal to 191 feet. Non-native invasive species defined in Section 9.1 (of MBI) will not exceed 30% in Years 1 and 2, and not exceed 20% for Years 3 and thereafter (same as Standard 1.2).	Y	Native cover and bare ground standards do not apply to this zone, but the native cover averaged 64% and bare ground averaged 28%. Non-native invasive species cover averaged 2% (CI range: 1%-3%).
4.2	Riparian Vegetation Biennial "Semi-Wet Zone": The "Semi-Wet Zone" is defined as the area between the approximate annual inundation event elevation and 2-Year recurrence flood event elevation, and will begin at the lowest elevation where hydrophytic trees and shrubs can establish. The vegetative performance standards for the "Semi-Wet Zone" are the same as Performance Standards 2.1-2.6 for PSS and PFO wetlands.	Native cover: Y Invasive cover: Y Bare substrate: N/A Diversity: N/A Woody Standard: Y Hydrophytic: Y	**Native Cover (2.1):** Herbaceous native cover averaged 72% (CI range: 64%-79%); woody native cover averaged 2% (CI range 2%-2%). The combined native cover total is **74%.** **Invasive Cover (2.2):** Invasive herbaceous species averaged 1% (CI range: 0%-2%). Invasive woody species averaged 0% (CI range: 0%-0%). **Bare Substrate (2.3):** Not applicable at Year 1. **Diversity (2.4):** Not applicable at Year 1. **Woody Density/ Cover (2.5):** There was an average of 1,935 plants or stems/acre. Average woody cover was 2% (PI range: 2%-2%). **Hydrophytic Vegetation (2.6):** The Prevalence index in the herb layer averaged 2 (FACW), and in the woody layer averaged 2 (FACW).

Notes: All the above cover percentages represent absolute areal cover. In all cases, the "Year" refers to the number of years after ***that portion of the site*** was first planted. Bare substrate includes areas of bare soil and areas covered by moss, water, or dead herbaceous plants.

4: Further Actions:

Remedial work recommended	Yes ☒	No ☐
Deed Restriction or other protection instrument attached	Yes ☐	No ☒
Final Monitoring Report?	Yes ☐	No ☒
Requesting release or partial release of financial security?	Yes ☐	No ☒

January 17, 2025

DAIRY CREEK MITIGATION BANK

MONITORING REPORT YEAR 1 (2024)

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1.0 PLAN PURPOSE AND OVERVIEW

1.1 LOCATION

The Dairy Creek Mitigation Bank (DCMB) is located on 132 acres in Banks, Oregon; Township 2 North, Range 4 West, Section 36, utilizing a portion of tax lot 800 (144.40 ac), and the entirety of tax lot 603 (1.76 ac.); Longitude -123.121295, Latitude 45.616498. The project will be constructed in two Phases; Phase 1 is 97.5 acres, and Phase 2 is 34.5 acres. Phase 1 was constructed in 2023, and Phase 2 is planned for 2026.

1.2 MITIGATION GOALS AND OBJECTIVES

The mitigation goals and objectives for the DCMB are included in the Mitigation Bank Instrument, Exhibit C, Section 2.0.

1.3 MAINTENANCE AND MANAGEMENT ACTIONS

The DCMB Phase 1 grading work was completed in September of 2023. In late September, broad spectrum herbicide applications were made throughout the project area, followed by native seeding.

In October of 2023, a broadleaf selective herbicide application was completed on approximately 60% of the project area, targeting non-native species such as Queen Anne's lace (*Daucus carota*). These large-scale herbicide applications were completed with a tractor and boom sprayer. Backpack herbicide applications were made from the fall of 2023, through the spring of 2024, targeting non-native grasses such as tall fescue (*Schedonorus arundinaceus*) and perennial ryegrass (*Lolium perenne*).

Planting of native trees and shrubs was completed for Phase 1 between January and March of 2024. These woody species were planted in meandering rows to allow for maintenance mowing.

In the late spring and summer of 2024, broadleaf selective herbicide applications were made using an ATV boom sprayer between tree and shrub planting rows. The primary broadleaf targets included Queen Anne's lace, prostrate knotweed (*Polygonum aviculare*), and sharp-leaved cancerwort (*Kickxia elatine*). Backpack herbicide applications were made targeting reed canarygrass (Phalaris arundinacea), tall fescue, velvetgrass (*Holcus lanatus*), and thistle species.

In the summer and fall of 2024, field mowing was completed on all areas of the Phase 1 project area. Mowing was completed twice in some areas that were mowed earlier in the season. The purpose of mowing was to "release" tree and shrub plantings from competition, and to suppress non-native weeds and keep them from producing seed.

In the fall of 2024, herbicide applications were made to broadleaved weeds in the PFO, PSS and portions of the PEM areas. The targets primarily being Queen Anne's lace rosettes. Backpack herbicide applications were also made targeting non-native grasses.

The constructed stream channels and riverine wetland areas had some limited cover by reed canarygrass (*Phalaris arundinacea*), which was treated in the summer and fall of 2024. We anticipate that as more native herbaceous cover becomes established there will be less opportunity for invasive establishment.

1.4 MONITORING METHODS

The monitoring methods were derived primarily from the 2009 DSL Guidance. Please see the following excerpts from the DCMB MBI Exhibit C which describe the monitoring methods.

"*During the first year of monitoring, we will adopt, or in some cases may slightly exceed, the minimum number of samples as suggested in the DSL Guidance. The minimum number of plots in each sampling unit will be determined by the sampling unit's percentage of the habitat class as a whole. In Phase 1, each wetland habitat type will be greater than 5 acres therefore the minimum sampling size will be: 30 herbaceous plots in the PEM wetlands; 15 woody plots and 30 herbaceous plots each in PFO and PSS dominated wetlands; and 15 woody and herbaceous plots in the buffers. In Phase 2, the PFO and PSS areas will be greater than 5 acres but the PEM and Buffers are approximately 2 acres or less, therefore minimum sampling size will be: 20 herbaceous plots in the PEM wetlands; 15 woody plots and 30 herbaceous plots each in PFO and PSS dominated wetlands; and 5 woody and herbaceous plots in the buffers."* (DCMB MBI, Exhibit C, Section 10.1).

The vegetative performance standards are described in the MBI, Exhibit C, Section 9.1. Please see the following excerpts from the MBI.

"The various criteria specified by the standards include percent cover of native species, density and cover of woody plants, hydrophytic dominance (in wetland habitats), native species diversity, percent cover of non-native invasive species, and percent cover of bare substrate. In all cases "percent cover" means absolute aerial cover, rather than relative cover. We would like to emphasize that "bare substrate" includes bare soil, as well as areas covered by moss, water and/or dead herbaceous plants."

Regarding Invasive Species:

"A plant species should automatically be labeled as invasive if it appears on the current Oregon Department of Agriculture Noxious Weed list, plus known problem species including Phalaris arundinacea, Mentha pelugium, Holcus lanatus, Anthoxanthum odoratum, and the last crop plant if it is non-native. Non-native plants should be labeled as such if they are listed as non-native on the USDA Plants Database. Beginning in year 2 of monitoring, a non-native plant (not already identified by ODA or DSL) shall be considered "invasive" if it has 15% or more absolute cover in 10% or more of the plots for a given habitat class. If, in subsequent years, the plant is controlled below the threshold level, it will be removed from the "invasive species list". However, the ODA-listed and DSL-listed non-native invasives (as of 2022) will always be considered invasive, regardless of percent cover."

Regarding transects, vegetative plot spacing, and size:

"In general, the DCMB vegetation sampling will be organized in linear transects running from the western edge of the project to the eastern edge. The first transect will start near the northern end of the site (at a randomly determined start point within the northernmost 100 meters of the site); subsequent parallel transects will be located at fixed intervals south of each other."

"In the habitat sampling units, the first plot along each transect will be randomly located 0 to 10 meters from where the transect enters the sampling unit, and thereafter spaced at regular intervals."

"The herbaceous plots will be 1 square meter in size. The amount of bare substrate and the areal cover of each plant species growing in or hanging over the meter plots will be estimated and recorded."

"The number of individual stems (trees) or plants (shrubs) of each native species, including volunteers will be counted in each woody vegetation plot, in order to extrapolate the native stem/plant density per acre. The percent cover of both native and non-native invasive woody species in each woody vegetation plot will also be recorded. In later years, when aerial cover of canopy (tree) species in forested plots exceeds 50% cover, we will no longer count stems but rather estimate cover of each woody species within the plots."

"In general, the plot spacing on a transect will have an herbaceous plot spaced every 50 feet along the transect with the 1-meter square placed on the southside of the transect line, with the northwest and northeast corners of the plot laid along the transect; for transects running north to south, the 1-meter square plot will be placed on the east side of the transect line. In PFO, PSS, and upland buffer areas the tree and shrub plots (10 by 10-meter squares) will be placed every 100 feet along the transect line, with the plot located on the southside of the transect with northwest and northeast corners of the plot laid along the transect, for west to east transects; and plots will be located on east side of transect line for north to south transects. Plot spacing and location along a transect may be adjusted in areas to account for spatial constraints such as proximity to the project area or habitat boundaries.

For the Stream biennial wet-zone habitat type, we modified the woody plot size to be 5 by 10-meter rectangles. These plots are located along the streambanks and the biennial wet zone is too narrow to fit a 10 by 10-meter plot.

The 2024 vegetation monitoring was conducted on various dates in the summer and fall of 2024 including: July 22, 25, 26, 30, and 31; August 15; and November 5, 11, 15. Monitoring was completed by C. Jonas Moiel, Miles Eubanks, and Brandon Leveille.

Monitoring transects were navigated to by GPS, and plots were marked with tape or pin-flags. Distances between herb plots, and the four corners of woody plots were measured with tape and positions recorded with GPS.

1.5 MONITORING DATA LOCATIONS

Please refer to Figures 1a and 1b which display the planted habitat types (Cowardin classes), monitoring transect locations, monitoring data plots, photo monitoring locations, and hydrology monitoring pits and wells. The habitat types consist of Palustrine Emergent (PEM) wetlands,

Palustrine Scrub-Shrub (PSS) wetlands, Palustrine Forested (PFO) wetlands, Stream annual wet-zone, Stream biennial wet-zone, and Buffers, which include riparian forest and wetland mitigation buffers.

The number of plots established in 2024 slightly exceed the minimum number of recommended plots from the DSL Guidance. A total of 210 plots were established including: 30 herbaceous PEM, 30 herbaceous and 16 woody PSS, 34 herbaceous and 17 woody PFO, 16 herbaceous and 17 woody Buffer, 16 herbaceous Stream annual wet-zone, and 17 herbaceous and 17 woody Stream biennial wet-zone.

1.6 HYDROLOGY METHODS AND CONTEXT

Hydrology monitoring which occurred during the winter of 2023 through spring of 2024, primarily consisted of photo-documentation through drone and ground-level photographs. Green Banks' scientists visit the DCMB project on a weekly basis and documented observations of hydrology throughout the wet season.

In the fall of 2024, two staff gauges and two water-level loggers were installed into the constructed stream channels, and three water-level loggers were installed within the wetland areas. The hydrology monitoring locations for the wetlands were established in the same locations as the baseline.

2.0 RESULTS

2.1 VEGETATION STANDARDS RESULTS

The raw vegetation monitoring data for Year 1 (2024) are included in Appendix A. The following sections summarize the results of these data. Performance standards are stated verbatim in the summary tables and also on the Cover Sheet.

Palustrine Emergent Wetland Community

Palustrine Emergent (PEM) Community			
STANDARD	DESCRIPTION	MET?	COMMENTS
1.1	The standard for native cover for Year 1 shall be 40%; Year 2 shall be 50%; and Year 3 and thereafter shall be 60%.	Yes	55% native cover; CI: 50%-61;
1.2	The cover of non-native invasive species during the 1st and 2nd years shall not exceed 30%. For Year 3 and thereafter, the non-native invasive cover shall not exceed 10%.	Yes	1% Invasive cover; CI: 0%-2%;
1.3	Bare substrate represents no more than 20% cover by the 3rd year after planting and thereafter.	n/a	Bare ground was 19%.
1.4	By Year 3 and thereafter, there are at least 6 different native species or groupings of native species. To qualify, a species must have at least 5% average cover in the habitat class.	n/a	3 native species met criteria.
1.5	Prevalence Index < or = 3 ; or passes "50/20 rule" for dominance of hydrophytic vegetation.	Yes	PI was 2 (FACW).

The PEM community is meeting all of the performance standards for Year 1. Native cover averages 55% which meets the cover standard for Year 2. Invasive cover is very low (1% average), however, there is cover by non-native species such as ***Kickxia elantine*** (9%) and ***Polygonum aviculare*** (4%). Bare substrate is 19% which meets the Year 3 standard. The Prevalence Index for the community is 2, which is FACW.

Palustrine Forested Wetland Community

Palustrine Forested (PFO) Community			
STANDARD	DESCRIPTION	MET?	COMMENTS
2.1	The combined cover of native species for Year 1 shall be 40%; Year 2 shall be 50%; and Year 3 and thereafter shall be 60%.	No	Combined native cover 38% (Native herb cover 33%; native woody cover 5%)
2.2	The combined cover of non-native invasive species will not exceed 30% by Year 3 and thereafter.	Yes	2% Invasive cover; CI: 1%-3%
2.3	Bare substrate represents no more than 20% cover by the 3rd year, unless the tree/shrub canopy cover (shade) is greater than 70% in which case there is no bare ground standard.	n/a	Bare ground was 21%.
2.4	By Year 3 and thereafter, there are at least 6 different native species or groupings of native species. To qualify, species must have at least 5% average cover in the habitat class.	n/a	Three species met standard.
2.5	The density of woody vegetation is at least 1,600 native plants (shrubs) and/or stems (trees) per acre, including native volunteers and seedlings, and will have a trend of increasing canopy cover. After the aerial canopy cover (*including* shrub cover) is 50% or greater, there will be no minimum number of plants/stems.	No	There was an average of 1,503 plants per acre. Average woody cover was 5% (CI: 5%-6%)
2.6	Prevalence Index < or = 3 ; or passes "50/20 rule" for dominance of hydrophytic vegetation.	Yes	Prevalence Index in herb layer averaged 3 (FAC); woody average 2 (FACW).

The PFO community is close to meeting all of the performance standards for Year 1. The combined native cover averaged 38%, and the Standard 2.1 requires 40%, which is very close. Invasive species cover is low, averaging 2%. The was an average of 1,503 plants per acre (trees/shrubs) which is a slightly lower density than the Standard 2.5 specifies of 1,600 plants per acre. The Prevalence Index for the community is hydrophytic with an average of 3 (FAC) for the herb layer, and 2 (FACW) for the woody layer.

Palustrine Scrub-Shrub Community

Palustrine Scrub-Shrub (PSS) Community			
STANDARD	DESCRIPTION	MET?	COMMENTS
2.1	The combined cover of native species for Year 1 shall be 40%; Year 2 shall be 50%; and Year 3 and thereafter shall be 60%.	Yes	Combined native cover 54% (Native herb cover 51%; native woody cover 3%)

2.2	The combined cover of non-native invasive species will not exceed 30% by Year 3 and thereafter.	Yes	0% Invasive cover; CI: 0%-0%
2.3	Bare substrate represents no more than 20% cover by the 3rd year, unless the tree/shrub canopy cover (shade) is greater than 70% in which case there is no bare ground standard.	n/a	Bare ground was 26%.
2.4	By Year 3 and thereafter, there are at least 6 different native species or groupings of native species. To qualify, a species must have at least 5% average cover in the habitat class.	n/a	Four species met standard.
2.5	The density of woody vegetation is at least 1,600 native plants (shrubs) and/or stems (trees) per acre, including native volunteers and seedlings, and will have a trend of increasing canopy cover. After the aerial canopy cover (*including* shrub cover) is 50% or greater, there will be no minimum number of plants/stems.	Yes	There was an average of 1,678 plants per acre. Average woody cover was 3% (CI: 2%-3%)
2.6	Prevalence Index < or = 3 ; or passes "50/20 rule" for dominance of hydrophytic vegetation.	Yes	Prevalence Index in herb layer averaged 3 (FAC); woody averaged 2 (FACW).

The PSS community is meeting all of the performance standards for Year 1. The combined native cover averages 54%, which meets the standard for Year 2. Invasive species cover is very low, averaging 0%. There was an average of 1,678 plants per acre (trees/shrubs) which meets the Standard 2.5 which specifies 1,600 plants per acre. The Prevalence Index for the community is hydrophytic with an average of 3 (FAC) for the herb layer, and 2 (FACW) for the woody layer.

Buffer Community

Buffer Community			
STANDARD	DESCRIPTION	MET?	COMMENTS
2.1	The combined cover of native species for Year 1 shall be 40%; Year 2 shall be 50%; and Year 3 and thereafter shall be 60%.	Yes	Combined native cover 65% (Native herb cover 61%; native woody cover 4%)
2.2	The combined cover of non-native invasive species will not exceed 30% by Year 3 and thereafter.	Yes	1% Invasive cover; CI: 0%-2%
2.3	Bare substrate represents no more than 20% cover by the 3rd year, unless the tree/shrub canopy cover (shade) is greater than 70% in which case there is no bare ground standard.	n/a	Bare ground was 12%.
2.4	By Year 3 and thereafter, there are at least 6 different native species or groupings of native species. To qualify, a species must have at least 5% average cover in the habitat class.	n/a	Four species met standard.
2.5	The density of woody vegetation is at least 1,600 native plants (shrubs) and/or stems (trees) per acre, including nativ volunteers and seedlings, and will have a trend of increasin canopy cover. After the aerial canopy cover (*including* shrub cover) is 50% or greater, there will be no minimum number of plants/stems.	No	There was an average of 894 plants per acre. Average woody cover was 4% (CI: 4%-5%)

The buffer plant community consists of wetland and upland areas surrounding the wetland and stream mitigation. The buffer community is meeting most of the performance standards for Year 1. The combined native cover averaged 65%, which meets the standard for Year 3 and thereafter of 60% native cover. Invasive species cover was very low averaging 1%. There was an average of 894 plants per acre (trees/shrubs) which is much lower than the Standard 2.5 requires of 1,600 plants per acre. This can be attributed to a high level of mortality in several monitoring plots along the eastern edge of the project area (Transect 1), and some plots being located in transitionary areas between the mitigation areas and buffers.

Stream Annual Wet-Zone Community

Stream Annual Wet-Zone Community			
STANDARD	DESCRIPTION	MET?	COMMENTS
4.1	Native cover and bare ground standards do not apply to the "wet zone" within the W. Fork Dairy Creek and constructed channels, or approximately equivalent to elevations less than or equal to 191 feet. Non-native invasive species defined in Section 9.1 (of MBI) will not exceed 30% in Years 1 and 2, and not exceed 20% for Years 3 and thereafter (same as Standard 1.2).	Yes	Non-native invasive species cover averaged 2% (CI range: 1%-3%).

The Stream Annual Wet-Zone is meeting all of the performance standards for Year 1. It does not have native cover, bare substrate, or diversity standards. The invasive species cover was very low averaging 2%. Even though this community does not have standards for native cover or bare ground, the native herbaceous cover averaged 64% and bare ground averaged 28%.

Stream Biennial Semi-Wet Zone Community

Stream Biennial Semi-Wet Zone Community			
STANDARD	DESCRIPTION	MET?	COMMENTS
4.2	The "Semi-Wet Zone" is defined as the area between the approximate annual inundation event elevation and 2-Yea recurrence flood event elevation, and will begin at the lowest elevation where hydrophytic trees and shrubs can establish. The vegetative performance standards for the "Semi-Wet Zone" are the same as Performance Standards 2.1-2.6 for PSS and PFO wetlands.	Yes	
4.2	Native Cover	Yes	Combined native cover was 74% (herbaceous cover averaged 72%, woody cover averaged 2%).
4.2	Invasive Cover	Yes	Invasive herb cover averaged 1%; invasive woody cover averaged 0%
4.2	Bare Substrate	n/a	Not applicable at Year 1.
4.2	Diversity	n/a	Not applicable at Year 1.
4.2	Woody Density / Cover	Yes	Average woody density was 1,935 plants (trees/shrubs) per acre.

4.2	Hydrophytic	Yes	Prevalence Index averaged 2 (FACW) in the herb and woody layers.

The Stream Biennial Semi-Wet Zone is meeting all of the performance standards for Year 1. Combined native cover averaged 74% which exceed the Year 1 standard of 40%. Invasive species cover was very low averaging 1% in the herb layer and 0% in the woody layer. The density of woody vegetation was 1,935 plants per acre which exceed the standard of 1,600 plants per acre. The plant community is hydrophytic with an average Prevalence Index of 2 (FACW).

NOTE: All the above cover percentages in the preceding tables and discussions represent absolute areal cover. Bare substrate includes areas of bare soil and areas covered by moss, water, and/or dead herbaceous plants.

2.2 WETLAND HYDROLOGY STANDARDS RESULTS

The wetland hydrology standards focus on proving that the mitigation wetlands meet the definition of a wetland, including the presence of hydrophytic vegetation and wetland hydrology. A wetland delineation-lite will be completed for the Phase 1 project area around Years 3 to 5, during a year of normal precipitation. The following Table 17 from the MBI Exhibit C summarizes the wetland hydrology standards.

Table 17: Wetland Hydrology Standards

2.7 Construction Standard 1: Wetland excavation and grading areas will be constructed to design specifications. Excavation and grading will be within +/- 6-inches of designed elevations. This standard will be documented in an as-built report including post-construction topography and photos.
2.8 Construction Standard 2: Ditches and drain-tiling will be de-activated and documented in an As-Built report. The drain-tile outfall locations will be observed at Years 1 and 3, after a rain event in the winter to spring, to ensure that there is no evidence of water flow. Photographs will be included in the annual monitoring reports. If evidence of water flow is observed, the feature will be de-activated during the summer months and documented in the annual monitoring report.
2.9 Post-Construction Wetland Determination and ORWAP: Around Years 3-5 after Bank construction, during a month with normal rainfall, a wetland delineation-lite will be completed for the mitigation wetlands. A post-construction ORWAP will also be completed at this time and will replace the predicted ORWAP scores if they vary from what was predicted.

The Construction Standard 1 (2.7) was achieved and documented in the As-Built Report. Excavation and grading areas were installed within +/- 6 inches of designed elevations within the wetland mitigation areas.

Construction Standard 2 (2.8) has been achieved and documented in the As-Built Report. Locations where agricultural tiling has been deactivated were observed several times in 2024 after precipitation events. The deactivated tiles were buried during construction and there is no evidence of flow at the known outfall locations in the agricultural ditches.

Year 1 hydrology monitoring consisted of visual observation and photo documentation. This was partially due to early seasonal rains which made it difficult to install permanent hydrology monitoring devices such as shallow groundwater data-loggers and staff gauges. Ground-level and drone photos displaying hydrology are included in the Appendix B and C.

Please see the following precipitation table which displays the average rainfall by month beginning in October 2023. These precipitation data are from the NWS Hillsboro Airport weather station and the WETS table data are from the Forest Grove weather station. For the WETS table data, we utilized approximately 53 years of climate data from 1971-2024; typically WETS table data is for a 29-year period from 1971-2000 but this longer period of data should provide more accurate precipitation averages due to climate change.

Monthly Precipitation Data Table (2023 – 2024)

Month	Total Precipitation (Inches)	Average Precipitation (Inches)	Percent of Monthly Average Precipitation	Within "Normal" 30-70 percentile Range from WETS Table?	Current Water Year to Date (Inches)	Percent of Average Water Year to Date at end of Month
Oct. 2023	2.05	3.32	61.74%	Within normal range (1.89”-4.04”)	2.05	61.74%
Nov. 2023	2.26	7.03	32.15%	Below normal range (4.64”-8.43”)	4.31	41.64%
Dec. 2023	7.68	7.90	97.21%	Within normal range (5.37”-9.43”)	11.99	65.69%
Jan. 2024	9.66	7.00	138%	Above normal range (4.50”-8.42”)	21.65	85.74%
Feb. 2024	4.03	5.36	75.19%	Within normal range (3.32”-6.49”)	25.68	83.89%
March 2024	3.47	4.78	72.59%	Within normal range (3.35”-5.67”)	29.15	82.37%

Source: Precipitation totals from Hillsboro station NWS. Averages from Forest Grove WETS table 1971-2024.

The constructed intermittent stream channels were observed for surface water slow in the fall of 2023 through the spring of 2024. Precipitation events in the amount of approximately 1 inch in 24-hours activate the intermittent channels and flows persist for several days after each rain event. Precipitation was frequent enough during the wet season to maintain flows in the intermittent channels from

November 7, 2023 through March 20, 2024; a total of approximately 134 days. January of 2024, was the wettest January in 23 years (since 2001), with consistent rainfall all month. This resulted in overbank flooding from the constructed channels for a few weeks.

A more in-depth analysis of wetland and stream hydrology will be presented around Years 3 to 5, for the post-construction wetland and waters delineation.

2.3 STREAM MITIGATION STANDARDS RESULTS

The stream mitigation performance standards focus on collecting stream data at Years 3, 6, and 9. The only stream standards that are relevant for Year 1 are Standards 3.0, 4.1, and 4.2.
Stream Construction Standard 1 (3.0) specifies that excavation and grading will be within +/- 6-inches of designed elevations, and that a total of 400 pieces of large wood will be installed. This standard was documented as being achieved in the As-Built report. Several mature Oregon Oak (*Quercus garryana*) trees were preserved during construction which was an adjustment to the proposed designs in the MBI; however, we interpret the intent of the stream Construction Standard 1 to be to construct the stream features to designed elevations, and the preservation of several trees was not an adjustment to these elevations.

From the As-Built Report: "*The intent of this performance standard was to ensure that the designed stream channel bottoms were within +/- 6 inches of designed elevations. This was to ensure that the constructed streams had similar duration and flows as predicted by our hydraulic model. It was not our intent to remove every mature tree within the perennial stream mitigation areas. As described in Section 3.0, several mature trees were preserved which caused some minor adjustments to the perennial streambank footprint.*"

The amount of large wood, as defined by SFAM, required per the designs was 400 pieces total. Our As-Built total is 418 pieces of large wood. This includes 169 pieces which existed during the baseline within the perennial and intermittent stream channels, 76 large logs (30ft or greater), 24 large logs with intact rootwads, 8 rootwads, and 59 pieces of large wood as defined by SFAM.

Stream mitigation standards 4.1 and 4.2 are vegetation performance standards which are addressed in Section 2.1 Vegetation Standards Results.

The stream mitigation performance standards from the MBI are included below for reference.

Table 18: Stream Mitigation Performance Standards
3.0 Construction Standard 1: Perennial and Intermittent stream enhancement areas will be constructed to design specifications. Excavation and grading will be within +/- 6-inches of designed elevations. The number of pieces of large wood will meet or exceed the number proposed in the design which is equivalent to 400 pieces total (>24 pieces per 100 meters). This standard will be documented with an As-Built report including post-construction topography and photos. **3.1** Construction Standard 2: Created intermittent stream channels will have a downward gradient to ensure that there is no fish entrapment risk. This will be initially verified by a longitudinal survey of the constructed channel bottoms and included in the As-Built report. Longitudinal surveys of the created channels will additionally be completed at Years 3, 6, and 9, to ensure that they continue to have a downward gradient.

3.2 Construction Standard 3**:** Aggradation and Degradation will not affect the function of the inlets and outlets of the created channels. Minor change in channel bed and bank elevations will occur as the channels evolve, which is expected to occur primarily for the first few years after construction (Years 1-3). At Years 3, 6, and 9, the elevations of the inlets and outlets of the created channels (bed and banks) will be documented through cross-sectional surveys. Starting at Year 6, the aggradation and degradation, defined as the average change in elevations from cross-sectional surveys, will not be greater than +/- 6 inches from the previous monitoring period (e.g., Year 3), and will not be greater than +/- 12 inches between Years 3 and 9.

3.3 Acreage Requirement: Created intermittent stream channels shall receive sufficient flow throughout the monitoring period to maintain an Ordinary High-Water Mark (OHWM), or 2-Year recurrence interval flood elevation, that meets or exceeds the predicted waters boundary. This will be documented around Years 3 to 5, during a month with normal rainfall.

3.4 Flow-Duration: Created stream channels will be defined as intermittent if they meet all of the following criteria: a) flow occurs on an annual basis, and not just following storm events; b) they are determined to be intermittent by SDAM; and c) at least one species of aquatic insect or amphibian is present, or one species fish is present. The flow-duration standard will be verified at Years 3, 6, and 9.

3.5 Floodplain Connectivity: The 2-Year recurrence interval flood event (OHWM) will cause surface water to spill out of created channels in more than one location, and into the floodplain. This will be documented once around Years 3 to 5, during a year when the total rainfall for a 24-hour period is approximately between the annual and 2-Year event. Documentation will be provided by photographs, crest and staff gage data.

3.6 Incision: The Incision, measured as the Bank Height Ratio (BHR), will not exceed 1.33 within the created intermittent channels. Incision will be measured at ten stream cross-section locations and averaged to determine the incision value. The cross-section locations will be finalized during Year 1 monitoring. Incision will be measured at Years 3, 6, and 9.

3.7 Lateral Migration: Constraints to lateral migration within 100 feet of the created intermittent channels will be <10% of the streambank length (measured on both banks). This includes "soft" engineered structures such as keyed wood on channel bends. The distance of constraints to lateral migration will be measured with measuring tape and/or GPS during longitudinal surveys and documented on Years 3, 6, and 9.

3.8 Streambank Erosion: Streambank erosion will be <40% by Year 3, and <20% by Year 6 and thereafter. The percentage of erosion will be determined based on the length of erosion along each streambank divided by the total length of both streambanks (left, right). Erosion will be measured for both the enhanced perennial W. Fork Dairy Creek (left bank) and Straight Channel (left bank), and created intermittent channels. Any area where erosion is identified on more than 100 square feet will be re-seeded during the nearest seeding window and documented in annual report. Erosion will be measured at Years 3, 6, and 9.

3.9 Channel Bed Variability of Constructed Channels: The Channel Bed Variability will be measured at 100 locations within the created channels on Years 3, 6 and 9 as described in the monitoring plan. By Year 6 and thereafter, the Channel Bed Variability will be Moderate (0.3-0.7) or higher.

4.0 Large Wood: The frequency of Large Wood will be >24 pieces per 100 meters or approximately 400 pieces of large wood total for the project. Large wood will be counted by longitudinal surveys during annual monitoring at Years 3, 6 and 9.

4.1 Riparian Vegetation Annual "Wet Zone": Native cover and bare ground standards do not apply to the "wet zone" within the W. Fork Dairy Creek and constructed channels, or approximately equivalent to elevations less than or equal to 191 feet. Non-native invasive species defined in Section

9.1 will not exceed 30% in Years 1 and 2, and not exceed 20% for Years 3 and thereafter (same as Standard 1.2).
4.2 Riparian Vegetation Biennial "Semi-Wet Zone": The "Semi-Wet Zone" is defined as the area between the approximate annual inundation event elevation and 2-Year recurrence flood event elevation, and will begin at the lowest elevation where hydrophytic trees and shrubs can establish. The vegetative performance standards for the "Semi-Wet Zone" are the same as Performance Standards 2.1-2.6 for PSS and PFO wetlands.

2.4 LONG-TERM PROTECTION AND SUSTAINABILITY MILESTONES

The long-term protection and sustainability milestones do not include any milestones for Year 1; the first milestone is to be achieved at Year 3. These milestones (Table 19) from the MBI are included below for reference.

Table 19: Long-Term Protection and Sustainability Milestones

4.3 Long-Term Management Plan Updated: By the end of Year 3, the long-term management plan will be updated to incorporate any changes based on annual monitoring trends or changing project needs. This will also include an updated endowment budget if necessary. Coordination of these changes will be made with the preferred Long-Term Land Manager (LTLM) and the agencies.
4.4 Endowment Funded 60%: By the end of Year 4, 60% of the estimated endowment will be deposited in an escrow account or transferred to an endowment account approved by the agencies and LTLM. The endowment account balance will be provided with the annual monitoring report. Note: If credit sales occur slower than expected due to low credit demand, the completion of this standard may need to be delayed along with the projected credit release schedule.
4.5 Endowment Funded 80%: By the end of Year 5, 80% of the estimated endowment will be deposited in an escrow account or transferred to an endowment account approved by the agencies and LTLM. The endowment account balance will be provided with the annual monitoring report Note: If credit sales occur slower than expected due to low credit demand, the completion of this standard may need to be delayed along with the projected credit release schedule.
4.6 Long-Term Package Complete: Around Year 7, the long-term package will be finalized and executed which will include: 100% endowment funded, long-term management plan approved, conservation easement recording (Phase 1), completion of DEQ cleanup of contaminated area within tax lot 800 or tax lot line adjustment to remove the area from the Bank tax lot (Phase 1), and fee-title transfer for the completion of Phase 2 (this will include the Phase 1 area).

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 PROJECT STATUS

The DCMB is meeting nearly all of its performance standards for Year 1. The density of woody species (trees/shrubs) in the Palustrine Forested and Buffer communities are below the standard of 1,600 plants per acre. The native cover in the PFO community is below the standard of 40% cover for Year 1, averaging 38% native cover. All other standards are being met.

3.2 CONCLUSIONS

The DCMB project is developing nicely for Year 1. The Phase 1 project area is dominated by native grasses and herbs with low invasive species cover. Several non-native species including ***Polygonum aviculare, Kickxia elantine,*** and ***Daucus carota***, should be controlled to keep them from expanding further. They are not yet considered invasive species due to it being Year 1, but they will be added to the DCMB invasive species list if their cover is not reduced in future years.

The woody planting density needs to be increased in areas of the PFO and buffer communities. Woody plantings were installed in rows and the average plot density may have been affected by the location of plots in relation to planting rows. Some areas within the buffer community with low woody plant density had higher levels of mortality likely as a result of compacted soil conditions.

The restoration of wetland hydrology to the site through the removal/deactivation of artificial drainage features appears to have been successful. Flow was no longer observed at tile outfall locations and the site is retaining surface water for a longer duration of time, especially around Wetlands A and B. The removal of the concrete/earthern berm along the W. Fork Dairy Creek top of bank has resulted in the reconnection of the annual floodplain and restoration of riverine wetland hydrology.

The DCMB credit ledger for 2024 is included in Appendix D. The most recent credit release was on May 8, 2024 for 15% of the wetland and stream credits; bringing the total number of credits released to 18.216 wetland credits and 1,619.10 linear feet/ 1.64 acre of stream credit, or 30% of the total anticipated for Phase 1 the Bank. A total of 1.1 wetland credits, and 103.23 linear feet/ 0.10426 acre of stream credit, were withdrawn in 2024.

3.3 RECOMMENDATIONS

The PFO and buffer plant communities should be planted with additional trees and shrubs. Areas of mortality were surveyed in the fall of 2024, and additional planting is scheduled for January of 2025. A total of 13,450 bareroot plants were ordered from a local nursery for this planting. Additionally, live cuttings of willow, red-osier dogwood, and Pacific ninebark were installed into Wetlands A and B, and the intermittent stream channels. Native seeding is recommended in areas with low native herbaceous cover.

Non-native weed control efforts should continue in 2025, including herbicide application, mowing and cutting. These weed control efforts should be made year-round, beginning in the spring of 2025. We anticipate early successional plant communities to have a certain level of non-native plant cover and the focus should be on invasive perennial weeds.

3.4 FINANCIAL SECURITY STATUS

The establishment of DCMB Phase 1 required that a financial assurance of $393,250 was established. This was completed as an Assignment of Deposit at US Bank and Heritage Bank in 2023. In December of 2023, $69,300 along with interest was released from Heritage Bank for the completion of bank construction and As-Built submittal; a total of $73,950 remained at Hertiage Bank as well as $250,000 at US Bank after the release.

On May 8, 2024, a second financial assurance release was authorized for completion of seeding and planting Phase 1. This release included releasing the remainder of funds in the Heritage Bank account of $73,950, and releasing $17,900 along with interest from the US Bank account. Currently, a balance of $232,100 remains at US Bank for Phase 1 financial assurances.

The release of financial securities will generally follow the financial assurance release schedule as described in Exhibit J of the MBI. A financial assurance release for the submittal of Year 1 monitoring report and meeting performance standards will not be requested at this time as there are a couple standards that are not being met. This financial assurance release will be requested once the standards have been met, likely in late 2025.

4.0 REFERENCES

Green Banks, LLC 2023. Mitigation Bank Instrument for the Dairy Creek Mitigation Bank. Exhibit C, Mitigation Plan.

Oregon Department of Agriculture (ODA) 2024. ODA Plant Division, Noxious Weed Control. Oregon Noxious Weed List. URL http://www.oregon.gov/ODA/PLANT/WEEDS/statelist2.shtml.

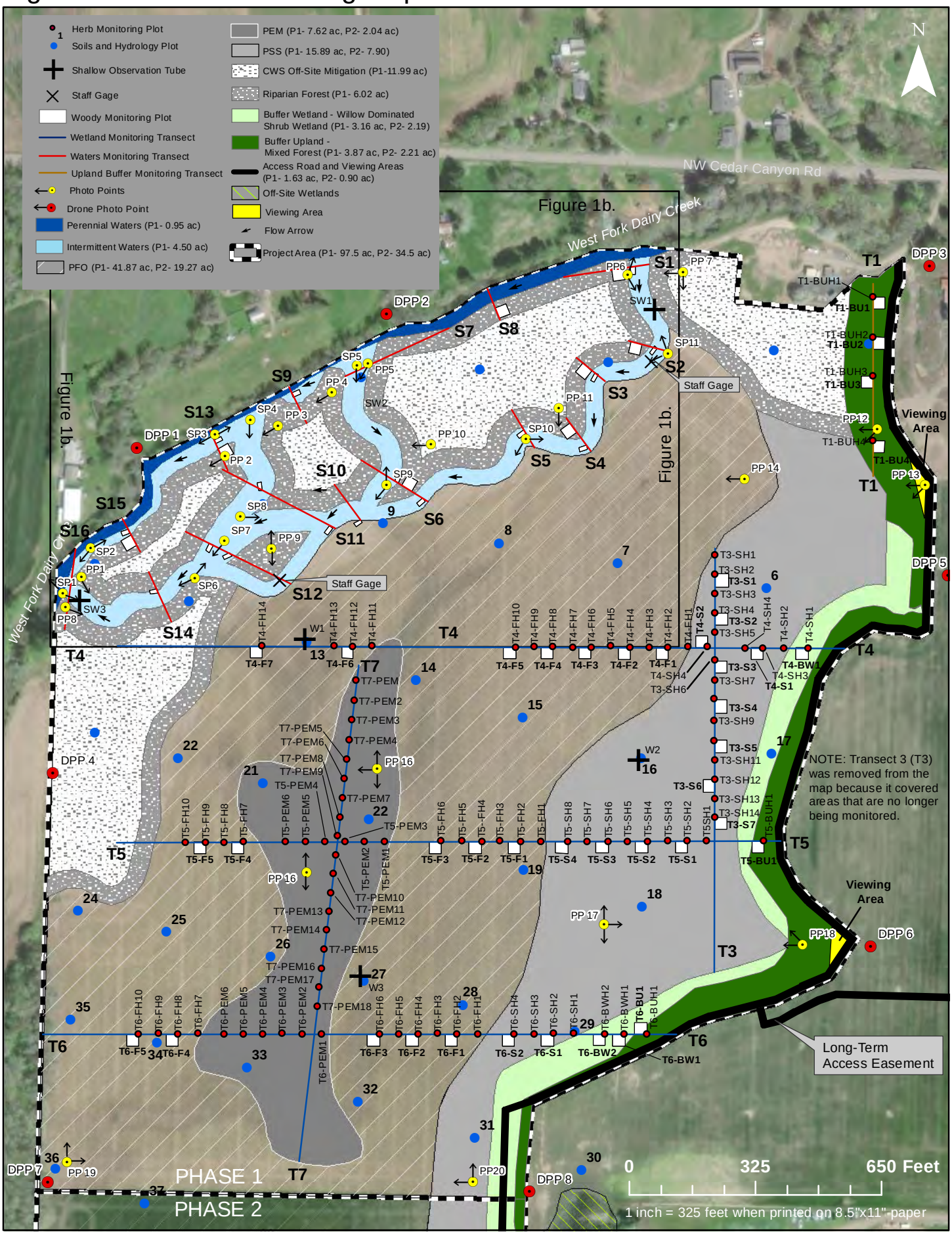
U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS). 2024. The PLANTS Database. National Plant Data Center, Baton Rouge, LA 70874-4490 USA. URL: http://plants.usda.gov

U.S. Army Corps of Engineers. 2020. *2020 Wetland Plant List;* for Western Valleys Mountains Coast Region.

MAPS AND FIGURES:

Figure 1a-1b: DCMB Monitoring Maps

Figure 1a. DCMB Monitoring Map



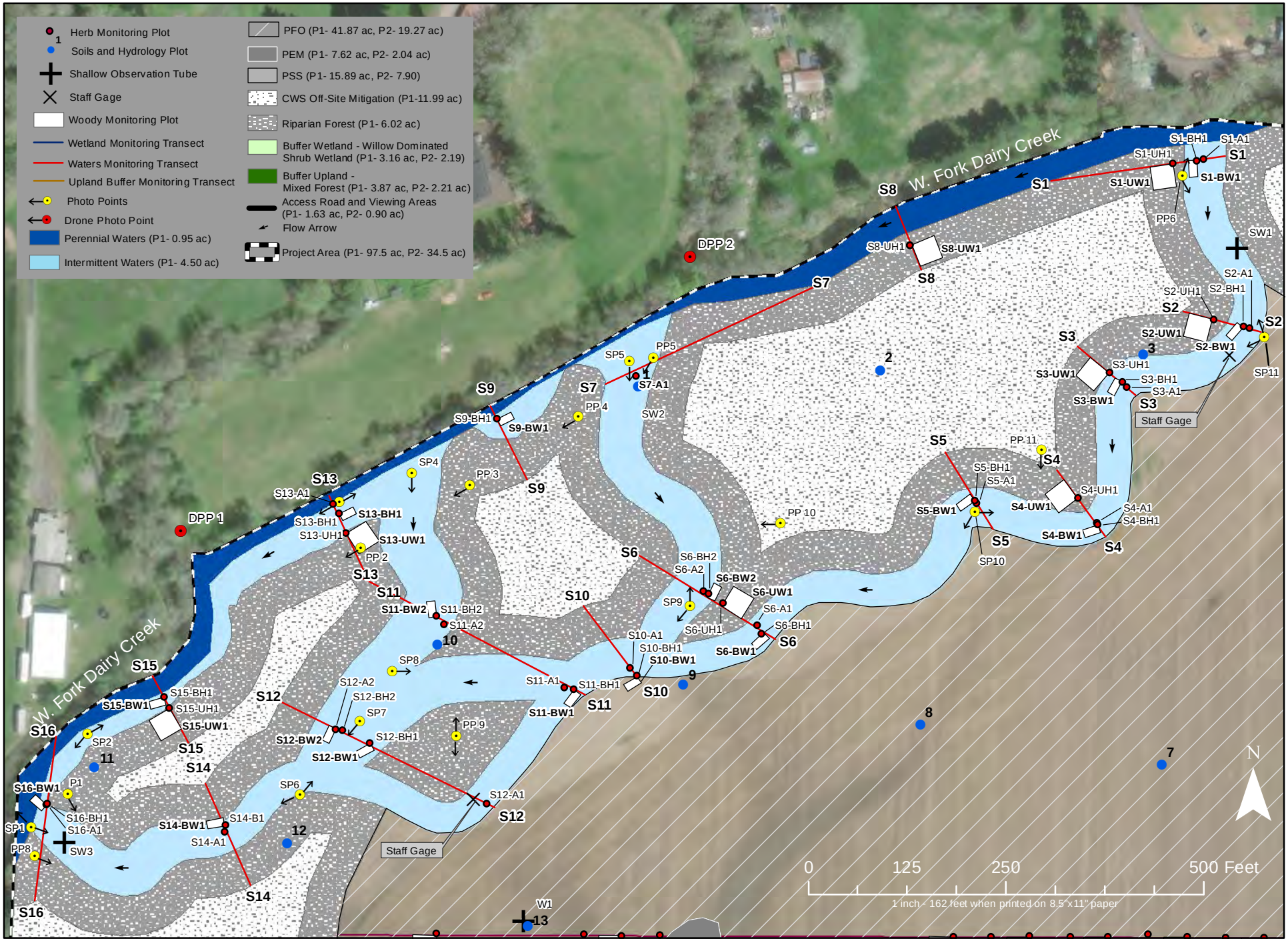
Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

\\GreenBanks\Server - Network\wetland banking\ washington county\Dairy Creek Bank\GIS\Monitoring\ 2024\mxds\DCMB Monitoring Map 2024 241220.mxd

Map created by Miles Eubanks. Ver. 1.25

greenbanks

Figure 1b. DCMB Monitoring Map - Stream Inset



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

\\GreenBanks\Server - Network\wetland banking\ washington county\Dairy Creek Bank\GIS\Monitoring\ 2024\mxds\DCMB Stream Plot Inset 241219.mxd

Map Created by Miles Eubanks
Ver. 1.25

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APPENDICES:

APPENDIX A: VEGETATION DATA

Vegetation Data Tables should be printed at the size of 11"x17".

DAIRY CREEK MITIGATION BANK

2024 Vegetation Monitoring	Sample Date(s):	7/22/2024 - 11/26/24	Percent (%) Cover																																
PEM Community			T5-PEM1	T5-PEM2	T5-PEM3	T5-PEM4	T5-PEM5	T5-PEM6	T6-PEM1	T6-PEM2	T6-PEM3	T6-PEM4	T6-PEM5	T6-PEM6	T7-PEM1	T7-PEM2	T7-PEM3	T7-PEM4	T7-PEM5	T7-PEM6	T7-PEM7	T7-PEM8	T7-PEM9	T7-PEM10	T7-PEM11	T7-PEM12	T7-PEM13	T7-PEM14	T7-PEM15	T7-PEM16	T7-PEM17	T7-PEM18		
Species	Origin (N, NN, I)	Wetland Status (1 - 5)																															Average	
Native Herbaceous Species																																			
Achillea millefolium	N	4	0	0	0	0	0	0	0	0	0	0	0	0	15	10	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	
Agrostis exarata	N	2	10	0	10	10	10	5	5	0	0	5	10	0	0	0	0	5	8	10	10	0	25	0	0	0	0	0	0	0	5	0	**4**	
Deschampsia cespitosa	N	2	15	30	30	10	0	10	12	15	15	7	10	20	0	0	0	7	20	25	15	20	10	15	0	5	40	60	15	55	40	75	**19**	
Deschampsia elongata	N	2	40	5	15	35	10	10	20	10	10	15	5	35	5	0	4	15	35	40	35	15	20	10	10	0	5	15	20	30	20	8	**17**	
Epilobium ciliatum	N	2	0	0	0	0	0	0	3	0	0	5	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Gnaphalium palustre	N	2	0	20	25	10	3	0	0	25	0	2	0	3	15	7	20	5	0	0	0	7	0	0	0	0	0	0	30	0	0	0	**6**	
Grindelia integrifolia	N	2	0	0	0	0	0	0	0	6	2	0	7	0	0	0	6	30	5	0	0	8	5	0	7	0	0	0	0	7	10	15	**4**	
Hordeum brachyantherum	N	2	0	0	5	0	5	15	0	0	0	0	0	0	10	5	3	0	0	0	0	5	0	0	0	0	5	0	0	0	0	0	**2**	
Plagiobothrys scouleri	N	2	0	0	0	0	0	0	10	0	15	0	0	0	0	0	0	17	0	0	0	0	0	0	0	1	0	5	0	0	0	0	**2**	
Psilocarphus elatior	N	2	0	0	0	5	0	0	6	10	0	8	5	2	0	10	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**	
Ranunculus sceleratus	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Rorippa curvisiliqua	N	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Veronica peregrina	N	2	0	0	0	0	0	2	0	0	0	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Invasive Herbaceous Species																																			
Anthoxanthum odoratum	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Cirsium arvense	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	**0**	
Cirsium vulgare	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Convolvulus arvensis	I	5	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Holcus lanatus	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Hypericum perforatum	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Mentha pulegium	I	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Phalaris arundinacea	I	2	0	0	0	0	0	10	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Schedonorus arundinaceus	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	20	0	0	0	0	10	0	0	0	**1**	
Senecio jacobaea	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Non-Native Herbaceous Species																																			
Daucus carota	NN	4	3	0	0	0	0	0	2	3	0	0	0	2	3	0	3	2	0	0	0	3	5	20	10	0	5	3	0	0	3	0	**2**	
Dipsacus fullonum	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	**0**	
Kickxia elatine	NN	3	3	5	8	25	65	10	3	10	20	15	10	6	20	5	35	2	0	0	0	10	3	0	0	0	0	1	5	5	0	0	**9**	
Lactuca serriola	NN	4	2	2	0	0	0	0	5	0	1	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	
Leontodon taraxacoides ssp.taraxacoides	NN	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	**0**	
Lolium perenne	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	0	0	0	0	20	30	20	0	0	0	10	0	0	0	**3**	
Lythrum portula	NN	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Matricaria discoidea	N	4	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Plantago major	NN	3	0	0	0	0	0	0	0	0	4	0	5	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**0**	
Poa annua	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Poa species	NN	***3***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Polygonum aviculare	NN	3	3	12	3	0	0	10	0	0	10	10	15	2	0	3	15	0	0	0	3	20	0	0	0	0	0	0	0	0	0	0	**4**	
Rumex crispus	NN	3	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Sonchus asper	N	4	0	0	0	0	0	0	0	4	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Solanum dulcumara	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Trifolium species	NN		0	5	0	0	1	12	2	10	8	10	10	2	5	0	0	5	0	0	1	6	4	0	10	0	0	2	0	0	0	2	**3**	
Bare Substrate																																			
Bare ground, unvegetated water, and/or moss			25	21	4	5	4	10	12	17	15	13	20	21	27	52	9	5	29	23	30	6	8	5	0	0	0	0	10	3	0	0	**12**	
Dead sprayed weeds			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	94	40	9	0	0	12	0	**7**	
Shade, Woody Stem Cover & Water Depth																																			
Shade from woody plants			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Stem cover on ground			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Approx. water depth (feet)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Summary Information			T5-PEM1	T5-PEM2	T5-PEM3	T5-PEM4	T5-PEM5	T5-PEM6	T6-PEM1	T6-PEM2	T6-PEM3	T6-PEM4	T6-PEM5	T6-PEM6	T7-PEM1	T7-PEM2	T7-PEM3	T7-PEM4	T7-PEM5	T7-PEM6	T7-PEM7	T7-PEM8	T7-PEM9	T7-PEM10	T7-PEM11	T7-PEM12	T7-PEM13	T7-PEM14	T7-PEM15	T7-PEM16	T7-PEM17	T7-PEM18	**Habitat Average**	**Standard Error**
Cover of Native Herbaceous Species			65	55	85	70	28	43	56	66	42	42	37	62	30	22	33	84	68	77	60	55	60	25	17	6	55	80	65	92	75	98	**55**	4.3
Lower CI (80%)																																	50	
Upper CI (80%)																																	61	
Cover of Invasive Herbaceous Species			0	0	0	0	0	10	0	0	0	0	3	0	0	6	0	8	0	0	0	0	0	0	0	0	0	0	0	0	5	0	**1**	0.5
Lower CI (80%)																																	0	
Upper CI (80%)																																	2	
Bare Substrate			25	21	4	5	4	10	12	17	15	13	20	21	27	52	9	5	29	23	30	6	8	5	43	94	40	9	10	3	12	0	**19**	3.5
Lower CI (80%)																																	15	
Upper CI (80%)																																	24	
Native Diversity																											3 species met the criteria: DECE, DEEL, GNPA							
Prevalence Index			2	2	2	2	3	2	2	2	2	2	2	2	3	3	3	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	**2**	N/A
Weighted Prevalence Index			168	169	203	215	257	176	169	206	190	209	170	176	192	135	243	206	148	152	147	212	209	280	134	12	120	190	205	199	202	196		
Sum of plant cover			76	79	96	95	96	90	73	93	85	87	80	79	58	41	91	104	68	77	70	94	92	95	57	6	60	91	90	97	88	100		

TUALATIN VALLEY ENVIRONMENTAL BANK

DAIRY CREEK MITIGATION BANK

2024 Vegetation Monitoring	**Sample Date(s):**	7/22/24 - 11/26/24	*Percent (%) Cover*																																			
PFO Herbaceous Community			**T4-FH1**	**T4-FH2**	**T4-FH3**	**T4-FH4**	**T4-FH5**	**T4-FH6**	**T4-FH7**	**T4-FH8**	**T4-FH9**	**T4-FH10**	**T4-FH11**	**T4-FH12**	**T4-FH13**	**T4-FH14**	**T5-FH1**	**T5-FH2**	**T5-FH3**	**T5-FH4**	**T5-FH5**	**T5-FH6**	**T5-FH7**	**T5-FH8**	**T5-FH9**	**T5-FH10**	**T6-FH1**	**T6-FH2**	**T6-FH3**	**T6-FH4**	**T6-FH5**	**T6-FH6**	**T6-FH7**	**T6-FH8**	**T6-FH9**	**T6-FH10**		
Species	Origin (N, NN, I)	Wetland Status (1 - 5)																																			**Row Average**	
Native Herbaceous Species																																						
Achillea millefolium	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	5	7	5	5	20	20	0	0	0	0	12	0	0	0	0	0	0	0	0	0		**2**	
Agrostis exarata	N	2	10	0	5	7	0	25	15	0	3	0	0	0	7	25	0	0	0	3	5	15	45	35	30	5	15	50	45	0	5	30	0	7	6	5	**12**	
Anaphalis margaritacea	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	**0**	
Bidens cernua	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Deschampsia cespitosa	N	2	0	0	3	0	0	0	10	30	5	0	0	0	0	5	0	0	0	5	0	15	10	5	0	0	8	25	25	8	17	30	0	0	0	0	**6**	
Deschampsia elongata	N	2	5	10	0	5	0	1	5	0	0	0	0	0	5	15	0	0	0	0	0	0	30	25	5	6	5	15	25	20	20	10	0	0	3	0	**6**	
Eleocharis obtusa (ovata)	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Epilobium ciliatum	N	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	2	6	**0**	
Grindelia integrifolia	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	**1**	
Hordeum brachyantherum	N	2	5	3	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5	0	0	5	5	5	0	0	0	0	0	5	0	0	0	0	**1**	
Impatiens capensis	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Juncus bufonius	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Plagiobothrys scouleri	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	5	0	**1**	
Psilocarphus elatior	N	2	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	35	35	**3**	
Ranunculus sceleratus	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Rorippa curvisiliqua	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	2	**0**	
Veronica peregrina	N	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Invasive Herbaceous Species																																						
Anthoxanthum odoratum	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Cirsium arvense	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	**0**	
Cirsium vulgare	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Convolvulus arvensis	I	5	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Holcus lanatus	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Hypericum perforatum	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Mentha pulegium	I	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Phalaris arundinacea	I	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	6	0	4	**1**	
Schedonorus arundinaceus	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Senecio jacobaea	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	**0**	
Non-Native Herbaceous Species																																						
Agrostis stolonifera	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	**0**	
Anthemis cotula	NN	4	8	0	0	0	4	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	**1**	
Daucus carota	NN	4	15	10	5	25	12	10	7	3	7	20	60	2	10	25	20	30	6	0	5	12	0	0	0	0	4	0	0	3	0	0	6	1	15	6	**9**	
Kickxia elatine	NN	3	0	3	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	7	20	35	20	0	0	0	0	0	0	5	40	2	0	**4**	
Lactuca serriola	NN	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	7	3	**1**	
Leontodon taraxacoides ssp.taraxacoides	NN	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Leucanthemum vulgare	NN	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	5	**0**	
Lolium perenne	NN	3	0	0	4	10	5	0	5	40	0	0	35	10	7	0	6	8	0	0	0	0	1	5	0	0	0	0	0	4	0	0	0	0	0	0	**4**	
Matricaria discoidea	NN	4	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	7	0	0	**1**	
Plantago major	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	**0**	
Polygonum aviculare	NN	3	65	0	80	53	75	63	45	0	60	70	0	3	50	10	20	30	0	3	20	0	5	0	0	5	10	5	0	5	0	4	5	0	0	10	**20**	
Polygonum persicaria (Persicaria maculosa)	NN	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	**0**	
Rumex crispus	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	4	15	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	
Rumex obtusifolius	NN	3	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	0	0	**0**	
Trifiloium species	NN		5	1	0	0	1	1	0	2	10	2	2	0	6	3	0	0	0	0	5	0	0	0	15	8	5	0	1	0	0	0	2	4	0	5	**2**	
Bare Substrate																																						
Bare ground and/or moss			0	10	1	0	1	0	0	25	4	7	0	67	7	0	0	0	40	32	25	27	2	5	0	19	58	5	4	30	0	12	0	10	4	13	**12**	
Dead sprayed weeds			0	63	0	0	0	0	12	0	0	0	0	0	0	0	40	27	41	20	0	0	0	0	0	0	0	0	0	30	58	0	0	0	0	0	**9**	
Shade, Woody Stem Cover & Water Depth																																						
Shade from woody plants			0	0	3	1	1	0	2	0	0	0	0	2	2	0	10	3	0	4	0	5	0	0	0	0	0	1	0	0	0	0	0	0	1	0	**1**	
Stem (basal) cover on ground (w/ species 4-letter code)			0	0	1	1	1	0	1	0	0	0	0	1	1	0	5 ROPI	3 ALRU	0	2 ROPI	0	3 PHCA	0	0	0	0	0	1 COSE	0	0	0	0	0	0	1 SALA	0	**0**	
Aerial cover of native trees/shrubs rooted in plot (w/ species4-letter code)			0	0	3	1	1	0	2	0	0	0	0	2	2	0	10 ROPI	3 ALRU	0	4 ROPI	0	5 PHCA	0	0	0	0	0	1 COSE	0	0	0	0	0	0	1 SALA	0		
Summary Information			**T3-FH1**	**T4-FH1**	**T4-FH2**	**T5-FH1**	**T5-FH2**	**T7-FH1**	**T7-FH2**	**T7-FH3**	**T7-FH4**	**T8-FH1**	**T8-FH2**	**T8-FH3**	**T8-FH4**	**T9-FH1**	**T9-FH2**	**T5-FH2**	**T5-FH3**	**T5-FH4**	**T5-FH5**	**T5-FH6**	**T5-FH7**	**T5-FH8**	**T5-FH9**	**T5-FH10**	**T6-FH1**	**T6-FH2**	**T6-FH3**	**T6-FH4**	**T6-FH5**	**T6-FH6**	**T6-FH7**	**T6-FH8**	**T6-FH9**	**T6-FH10**	**Habitat Average**	**Standard Error**
Cover of Native Herbaceous Species			20	13	10	12	2	26	30	30	9	0	0	3	19	51	12	5	5	30	45	30	85	70	40	48	28	90	95	28	42	81	36	17	59	53	**33**	4.6
Lower CI (80%)																																					27	
Upper CI (80%)																																					39	
Cover of Invasive Herbaceous Species			0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	6	5	5	**2**	1
Lower CI (80%)																																					1	
Upper CI (80%)																																					3	
Bare Substrate			0	73	1	0	1	0	12	25	4	7	0	67	7	0	40	27	81	52	25	27	2	5	0	19	58	5	4	60	58	12	0	10	4	13	**21**	4
Lower CI (80%)																																					15	
Upper CI (80%)																																					26	
Native Diversity																																					**3 plants meet diversity criteria- DECE, DEEL, AGEX**	
Prevalence Index-herb strata			3	3	3	3	3	3	3	3	3	3	4	4	3	3	3	3	4	3	3	3	2	2	2	2	2	2	2	2	2	2	3	3	3	2	**3**	N/A
Weighted Prevalence Index			327	75	292	313	306	281	241	192	266	295	360	128	252	324	202	254	68	154	195	207	209	215	235	195	102	195	190	95	84	190	274	247	253	201		
Sum of herbaceous plant cover			113	27	99	100	99	100	88	75	96	93	102	33	93	110	60	73	19	48	75	73	98	95	100	81	47	95	96	40	42	87	105	90	96	87		

DAIRY CREEK MITIGATION BANK

2024 Vegetation Monitoring	Monitoring dates: 7/22/24-8/15/24																			
PFO Tree and Shrub Data	**Percent Cover %**																			
Species	Origin (N, NN, I)	Wetland Status (1 - 5)	T4-F1	T4-F2	T4-F3	T4-F4	T4-F5	T4-F6	T4-F7	T5-F1	T5-F2	T5-F3	T5-F4	T5-F5	T6-F1	T6-F2	T6-F3	T6-F4	T6-F5	**Row Average**
Native Tree and Shrub Species:																				
Alnus rubra	N	3	1	1	1	1	1	0	0	1	0	0	1	1	0	0	0	1	1	**1**
Amelanchier alnifolia	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Cornus sericea ssp. ***sericea***	N	2	1	2	1	1	1	0	1	1	1	0	1	0	1	1	1	1	0	**1**
Corylus cornuta	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Crataegus douglasii	N	3	1	1	1	0	1	0	1	1	0	0	0	0	0	0	0	1	0	**0**
Frangula purshiana	N	3	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	**0**
Fraxinus latifolia	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Lonicera involucrata	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	**0**
Malus fusca	N	2	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	**0**
Physocarpus capitatus	N	2	2	0	1	1	2	0	0	0	1	1	0	0	0	1	0	1	0	**1**
Populus balsamifera	N	2	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	1	1	**0**
Populus tremuloides	N	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	**0**
Quercus garryana	N	4	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	**0**
Rosa nutkana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rosa pisocarpa	N	3	0	0	1	1	1	0	0	0	1	0	0	0	1	0	0	0	0	**0**
Rubus spectabilis	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix hookeriana	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	**0**
Salix lucida var. ***lasiandra***	N	2	1	1	1	1	1	1	1	1	1	0	2	1	0	0	0	2	2	**1**
Salix scouleriana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix sitchensis	N	2	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	**0**
Spiraea douglasii	N	2	0	0	0	0	0	0	0	0	1	1	0	2	0	0	1	0	0	**0**
Symphoricarpos albus	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Thuja plicata	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Non-Native Shrub and Tree Species																				
Crataegus monogyna	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Invasive Shrub and Tree Species																				
Rubus armeniacus	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rubus species (cultivar)	I		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Native Shrub and Tree Count	**Woody Stem Count (Trees and Shrubs)**																			
Alnus rubra	N	3	4	6	4	5	2	0	0	5	1	0	1	1	0	0	0	3	1	**2**
Amelanchier alnifolia	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Cornus sericea ssp. ***sericea***	N	2	9	18	7	3	2	4	0	13	6	2	1	0	14	10	5	1	0	**6**
Corylus cornuta	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Crataegus douglasii	N	3	3	3	4	0	3	0	5	7	6	2	0	0	2	10	1	3	0	**3**
Frangula purshiana	N	3	0	0	0	0	0	3	3	0	1	5	0	0	0	0	0	0	1	**1**
Fraxinus latifolia	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Lonicera involucrata	N	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	5	4	**1**
Mahonia aquifolium	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Malus fusca	N	2	9	4	4	6	0	0	0	3	1	4	0	0	0	4	0	2	0	**2**
Physocarpus capitatus	N	2	10	0	3	9	10	0	0	1	9	9	0	0	0	11	5	5	0	**4**
Populus balsamifera	N	2	0	0	0	1	2	0	0	1	2	0	5	2	3	1	0	3	3	**1**
Populus tremuloides	N	4	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	**0**
Quercus garryana	N	4	0	0	0	0	0	2	0	0	0	0	2	2	2	0	0	0	0	**0**
Rosa nutkana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rosa pisocarpa	N	3	0	0	7	6	14	0	0	5	5	0	3	1	4	0	0	0	0	**3**
Rubus spectabilis	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix hookeriana	N	2	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	0	3	**0**
Salix lucida var. ***lasiandra***	N	2	2	2	4	2	3	3	4	6	6	5	5	3	3	1	2	9	9	**4**
Salix scouleriana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix sitchensis	N	2	0	0	0	0	0	0	3	0	3	0	0	1	3	0	0	0	3	**1**
Spiraea douglasii	N	2	0	0	0	0	0	2	2	0	5	8	0	9	5	1	8	0	0	**2**
Symphoricarpos albus	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Thuja plicata	N	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	**0**
Summary Information																				**Habitat Average**	**Standard Error**
Cover of Invasive Shrubs and Trees			**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
Lower CI (80%)																				0	
Upper CI (80%)																				0	
Density of Woody Vegetation		Average per acre	1791	1597	1597	1549	1742	678	823	1984	2226	1694	871	1113	1888	1839	1016	1984	1162	**1503**	
Plot Area (shrub/tree plot)	900																				
Per acre multiplier: Input 4,047 if plot area entered in B62 is in sq.meters or 43,560 for sq.feet	43560																				
Percent Cover of Native Shrubs and Trees			7	6	7	7	8	1	5	4	5	3	5	8	2	3	2	10	7	**5**	1
Lower CI (80%)																				5	
Upper CI (80%)																				6	
Sum of native plants /plot			37	33	33	32	36	14	17	41	46	35	18	23	39	38	21	31	24	**30**	
Does Plot Pass Native Cover Standard based on ≥ 50% Native Cover Y or N?			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Does Plot Pass Native Cover Standard based on ≥ 1600 plants or stems per acre Y or N?			Y	N	N	N	Y	N	N	Y	Y	Y	N	N	Y	Y	N	Y	N		
Prevalence Index--woody strata			2	2	2	2	2	2	2	3	2	2	3	3	3	2	2	2	2	**2**	
Weighted Prevalence Index			16	14	17	16	19	2	12	10	11	6	16	21	5	7	4	24	16		
Sum of plant cover			7	6	7	7	8	1	5	4	5	3	6	8	2	3	2	10	7		

2024 Vegetation Monitoring	Sample Date(s):	7/22/24-11/26/24	Percent (%) Cover																															
PSS Herbaceous Community	Origin (N, NN, I)	Wetland Status (1 - 5)	T3-SH1	T3-SH2	T3-SH3	T3-SH4	T3-SH5	T3-SH6	T3-SH7	T3-SH8	T3-SH9	T3-SH10	T3-SH11	T3-SH12	T3-SH13	T3-SH14	T4-SH1	T4-SH2	T4-SH3	T4-SH4	T5-SH1	T5-SH2	T5-SH3	T5-SH4	T5-SH5	T5-SH6	T5-SH7	T5-SH8	T6-SH1	T6-SH2	T6-SH3	T6-SH4	Average
Native Herbaceous Species																																		
Achillea millefolium	N	4	0	0	0	1	1	20	7	6	5	5	10	8	0	0	0	5	15	7	0	0	0	0	3	2	1	5	0	0	1	2	**3**
Agrostis exarata	N	2	5	8	35	40	30	15	15	20	25	25	20	10	10	0	35	2	0	20	1	25	35	15	8	0	0	4	0	0	0	0	**13**
Beckmannia syzigachne	N	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Bidens cernua	N	1	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	**0**
Carex scoparia and/or C. ovalis	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	**0**
Deschampsia cespitosa	N	2	40	15	45	20	30	20	10	10	30	20	20	35	21	5	5	50	10	10	0	10	3	20	7	25	25	12	0	0	0	7	**17**
Deschampsia elongata	N	2	8	10	10	20	25	5	0	3	0	0	5	25	0	0	20	2	0	30	0	5	10	2	0	0	0	0	0	0	0	0	**6**
Epilobium ciliatum	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	**0**
Gilia capitata	N		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	17	0	0	0	0	**1**
Glyceria borealis	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Gnaphalium palustre	N	2	0	0	0	0	0	0	0	0	0	1	0	0	0	40	0	0	0	0	40	10	2	2	0	0	0	0	0	40	0	0	**5**
Hordeum brachyantherum	N	2	0	0	0	0	0	5	7	20	5	10	5	0	5	0	0	3	8	0	0	0	0	18	7	6	8	8	0	0	0	2	**4**
Juncus bufonius	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**0**
Lupinus rivularis	N	3	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Prunella vulgaris	N	4	0	0	0	1	0	0	1	0	1	0	0	3	0	0	0	1	0	0	0	1	0	0	2	0	0	4	0	0	0	0	**0**
Psilocarphus elatior	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rorippa curvisiliqua	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	37	6	0	0	0	0	0	0	0	0	0	0	**2**
Veronica peregrina		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	0	0	3	1	1	0	0	0	0	0	0	0	8	0	**1**
Invasive Herbaceous Species																																		
Anthoxanthum odoratum	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Cirsium arvense	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Cirsium vulgare	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Convolvulus arvensis	I	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**0**
Holcus lanatus	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Hypericum perforatum	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Mentha pulegium	I	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Phalaris arundinacea	I	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Schedonorus arundinaceus	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Senecio jacobaea	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Non-Native Herbaceous Species																																		
Anthemis cotula	NN	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	7	0	13	0	15	0	0	0	0	0	0	**1**
Daucus carota	NN	4	0	4	1	0	0	0	0	0	0	2	0	0	0	2	0	0	0	1	0	0	20	2	0	6	12	0	0	0	15	0	**2**
Kicloia elatine	NN	3	0	0	0	0	0	1	1	3	0	7	10	10	10	1	8	10	10	0	1	7	5	12	3	2	2	0	40	10	0	0	**5**
Lolium perenne	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	**0**
Plantago major	NN	3	0	1	1	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	5	3	0	0	0	0	0	0	0	0	0	0	**1**
Poa annua	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Poa species (assumed NN, FAC)	NN	***3***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Polygonum aviculare	NN	3	15	50	0	5	7	0	0	10	5	0	5	0	0	0	15	20	20	3	0	0	15	0	15	7	30	15	0	0	40	0	**9**
Raphanus sativus	NN	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	**1**
Rumex crispus	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	**1**
Rumex obtusifolius	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Sonchus asper	NN	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Solanum dulcamara	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Trifolium hybridum	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Trifolium pratense	NN	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Trifiloium species	NN		0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	10	3	0	0	7	6	0	0	1	6	2	0	0	4	0	**1**
Bare Substrate																																		
Bare ground and/or moss			0	8	8	0	7	0	30	0	14	0	0	9	0	46	12	5	0	0	8	5	3	9	0	10	11	33	0	0	0	0	**7**
Dead/sprayed weeds			32	0	0	13	0	0	29	26	15	30	25	0	0	0	0	0	41	29	0	0	0	0	55	30	5	0	60	50	29	89	**19**
Shade & Woody Stem Cover on Ground																																		
Shade from woody plants			0	0	0	0	0	0	0	5	0	0	0	7	0	0	0	3	0	0	0	0	0	0	0	2	3	0	0	0	3	0	**1**
Stem cover (basal) on ground (w/ species 4 letter code)			0	0	0	0	0	0	0	1 ROPI	0	0	0	4 SPDO	0	0	0	1 SPDO	0	0	0	0	0	0	0	1 PHCA	1 SALA	0	0	0	1 COSE	0	
Summary Information			T3-SH1	T3-SH2	T3-SH3	T3-SH4	T3-SH5	T3-SH6	T3-SH7	T3-SH8	T3-SH9	T3-SH10	T3-SH11	T3-SH12	T3-SH13	T3-SH14	T4-SH1	T4-SH2	T4-SH3	T4-SH4	T5-SH1	T5-SH2	T5-SH3	T5-SH4	T5-SH5	T5-SH6	T5-SH7	T5-SH8	T6-SH1	T6-SH2	T6-SH3	T6-SH4	Habitat Average	Standard Error
Cover of Native Herbaceous Species			53	33	90	81	85	45	33	55	61	56	50	73	90	45	65	84	18	60	85	64	53	67	24	31	33	45	0	40	8	9	**51**	4.6
Lower CI (80%)																																	45	
Upper CI (80%)																																	57	
Cover of Invasive Herbaceous Species			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**0**	0
Lower CI (80%)																																	0	
Upper CI (80%)																																	0	
Bare Substrate			32	8	8	13	7	0	59	26	29	30	25	9	0	46	12	5	41	29	8	5	3	9	55	40	16	33	60	50	29	89	**26**	4
Lower CI (80%)																																	21	
Upper CI (80%)																																	31	
Native Diversity																												4 plants meet diversity criteria-GNPA, DEEL, DECE, AGEX.						
Prevalence Index-herb strata			2	3	2	2	2	4	3	3	2	2	3	3	3	2	2	2	4	3	2	2	3	2	3	3	3	2	3	2	3	3	**3**	N/A
Weighted Prevalence Index			151	239	187	183	195	173	99	171	159	161	185	214	256	119	194	296	186	161	156	220	320	230	118	184	214	129	120	110	204	26		
Sum of herbaceous plant cover			68	92	92	86	92	46	34	68	66	65	65	83	100	54	88	128	51	64	92	103	114	94	42	63	83	62	40	50	70	9	**72**	

DAIRY CREEK MITIGATION BANK

2024 Vegetation Monitoring	Sample Date(s):	7/22/2024-8/15/24	Percent Cover %																
PSS Shrub and Tree Data	Origin	Wetland Status	T3-S1	T3-S2	T3-S3	T3-S4	T3-S5	T3-S6	T3-S7	T3-S8	T4-S1	T4-S2	T5-S1	T5-S2	T5-S3	T5-S4	T6-S1	T6-S2	Row Average
Native Shrub and Tree Species:	(N, NN, I)	(1 - 5)																	
Cornus sericea ssp. ***sericea (alba)***	N	2	0	0	0	0	0	0	4	0	0	0	0	0	1	1	1	0	**0**
Corylus cornuta	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Crataegus douglasii	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	**0**
Lonicera involucrata	N	3	0	1	1	0	1	1	0	0	0	1	0	1	0	0	0	0	**0**
Malus fusca	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	**0**
Physocarpus capitatus	N	2	0	1	0	0	0	0	0	0	0	0	1	0	1	0	1	1	**0**
Populus balsamifera	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Pseudostuga menziesii	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Quercus garryana	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rosa nutkana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rosa pisocarpa	N	3	0	0	1	1	0	0	0	0	0	0	0	0	1	2	1	1	**0**
Rubus leucodermis	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rubus spectabilis	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix hookeriana	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix lucida var. ***lasiandra (lasiandra)***	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix scouleriana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix sitchensis	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Sambucus nigra ssp. ***cerulea***	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Spiraea douglasii	N	2	1	1	1	1	1	1	5	0	1	1	0	1	0	0	0	0	**1**
Non-Native Shrub and Tree Species																			
Crataegus monogyna	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Malus pumila	NN	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Prunus species	NN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Invasive Shrub and Tree Species																			
Rubus armeniacus	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Native Shrub and Tree Count	**Woody Stem Count (Trees and Shrubs)**																		
Alnus rubra	N	3	0	2	1	0	0	0	0	0	0	0	0	0	1	0	0	1	**0**
Amelanchier alnifolia	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Cornus sericea ssp. ***sericea (alba)***	N	2	0	1	0	0	0	0	16	0	0	0	0	0	9	10	10	5	**3**
Corylus cornuta	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Crataegus douglasii	N	3	0	2	0	0	3	1	0	0	0	0	0	0	2	7	4	2	**1**
Frangula (Rhamnus) purshiana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Fraxinus latifolia	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Lonicera involucrata	N	3	1	6	8	0	14	8	0	0	2	10	4	12	0	0	0	0	**4**
Malus fusca	N	2	0	0	0	0	1	0	0	0	0	1	0	0	2	11	0	2	**1**
Physocarpus capitatus	N	2	0	9	0	0	10	0	2	0	4	0	5	3	8	8	6	15	**4**
Populus balsamifera	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**0**
Rosa pisocarpa	N	3	3	3	11	9	0	0	0	0	0	7	0	0	8	20	9	7	**5**
Salix hookeriana	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**0**
Salix lucida var. ***lasiandra (lasiandra)***	N	2	0	0	0	0	0	1	0	0	0	0	1	1	1	0	1	5	**1**
Salix sitchensis	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	**0**
Sambucus nigra ssp. ***cerulea***	N	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	**0**
Spiraea douglasii	N	2	23	14	18	33	9	18	35	0	23	14	0	11	0	0	0	0	**12**
Thuja plicata	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**

Summary Information																			**Habitat Average**	**Standard Error**
Cover of Invasive Shrubs and Trees			0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	**0**	0
Lower CI (80%)																			0	
Upper CI (80%)																			0	
Density of Woody Vegetation		Average per acre	1307	1791	1839	2033	1791	1404	2565		1404	1549	484	1307	1500	2710	1694	1791	**1678**	
Plot Area (shrub/tree plot)	900																			
entered in B63 is in sq.meters or 43,560 for	43560																			
Percent Cover of Native Shrubs and Trees			1	3	3	2	2	2	9		1	2	1	2	3	5	3	2	**3**	1
Lower CI (80%)																			2	
Upper CI (80%)																			3	
Sum of native plants/plot			27	37	38	42	37	29	53		29	32	10	27	31	56	35	37	**35**	
Does Plot Pass Native Cover Standard based on ≥ 50% Native Cover Y or N?			N	N	N	N	N	N	N		N	N	N	N	N	N	N	N		
Does Plot Pass Native Cover Standard based on ≥ 1600 plants or stems per acre Y or N?			N	Y	Y	Y	Y	N	Y		N	N	N	N	N	Y	Y	Y		
Prevalence Index-woody strata			2	2	3	3	3	3	2		2	3	2	3	2	3	2	3	**2**	
Weighted Prevalence Index			2	7	8	5	5	5	18		2	5	2	5	7	13	7	5		
Sum of plant cover			1	3	3	2	2	2	9		1	2	1	2	3	5	3	2	**3**	

DAIRY CREEK MITIGATION BANK

2024 Vegetation Monitoring	Sample Date(s):	7/22/24 - 11/26/24																		
												Percent (%) Cover								
Buffer Herbaceous Community	Origin (N, NN, I)	Wetland Status (1 - 5)	T1-BUH1	T1-BUH2	T1-BUH3	T1-BUH4	T4-BWH1	T5-BUH1	T6-BUH1	T6-BWH1	T6-BWH2	S1-BUH1	S2-BUH1	S3-BUH1	S4-BUH1	S6-BUH1	S8-BUH1	S13-BUH1		
Species																			**Average**	
Native Herbaceous Species																				
Achillea millefolium	N	4	7	0	0	15	0	30	40	0	0	25	0	0	0	0	10	0	**8**	
Agrostis exarata	N	2	0	0	0	0	25	0	3	0	0	0	0	0	0	60	0	10	**6**	
Beckmannia syzigachne	N	1	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	**1**	
Bidens cernua	N	1	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	**0**	
Bromus carinatus	N	5	5	0	0	10	0	7	0	0	0	10	7	15	5	0	10	0	**4**	
Conyza canadensis (tentative)	N	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	25	0	**2**	
Cuscuta pentagona (tentative)	N	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Deschampsia cespitosa	N	2	10	0	0	0	10	40	0	0	0	5	89	20	60	15	10	10	**17**	
Deschampsia elongata	N	2	15	60	40	20	0	15	0	0	0	0	0	20	30	5	15	5	**14**	
Epilobium ciliatum	N	2	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	**2**	
Epilobium brachycarpum	N		0	3	0	0	0	0	0	0	0	0	0	0	0	0	5	0	**1**	
Epilobium densiflorum	N	2	0	1	0	0	0	0	0	0	0	0	4	0	0	0	0	5	**1**	
Eriophyllum lanatum	N		1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Festuca idahoensis ssp. Roemeri	N	4	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Festuca rubra ssp. ***Rubra***	N	3	0	15	7	10	0	0	0	0	0	0	0	0	0	0	0	0	**2**	
Gnaphalium palustre	N	2	0	0	0	0	2	0	7	0	8	0	0	0	0	0	0	0	**1**	
Galium aparine	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Gilia capitata	N		0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Hordeum brachyantherum	N	2	8	0	6	5	3	0	0	0	0	0	0	0	0	0	0	0	**1**	
Juncus bufonius	N	2	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	**0**	
Prunella vulgaris	N	4	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	2	**0**	
Rorippa curvisiliqua	N	1	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	**0**	
Veronica peregrina	N	1	0	0	0	0	4	0	10	3	5	0	0	0	0	0	0	0	**1**	
Invasive Herbaceous Species																				
Anthoxanthum odoratum	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Cirsium arvense	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Cirsium vulgare	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Convolvulus arvensis	I	5	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	**0**	
Holcus lanatus	I	3	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	
Hypericum perforatum	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Mentha pulegium	I	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Phalaris arundinacea	I	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Schedonorus arundinaceus	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Senecio jacobaea	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Non-Native Herbaceous Species																				
Anthemis cotula	NN	4	0	0	0	0	10	0	0	7	0	0	0	0	0	0	0	0	**1**	
Daucus carota	NN	4	5	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	**1**	
Kickxia elatine	NN	3	0	0	0	1	15	0	5	15	20	15	0	7	0	0	0	0	**5**	
Lolium perenne	NN	3	0	0	0	0	0	0	7	0	0	40	0	0	0	0	0	50	**6**	
Poa annua	NN	3	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	**0**	
Poa species (asumed NN, FAC)	***NN***	***3***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Plantago lanceolata	NN	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Plantago major	NN	3	0	0	0	0	3	6	0	0	0	0	0	0	0	0	0	0	**1**	
Polygonum aviculare	NN	3	0	0	1	5	7	0	12	65	10	0	0	0	0	0	0	0	**6**	
Rumex crispus	NN	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	**0**	
Trifiloium species	NN		0	0	1	4	0	0	3	5	0	0	0	0	0	0	10	12	**2**	
Bare Substrate																				
Bare ground and/or moss			0	20	44	20	5	2	23	0	57	0	0	0	0	0	15	5	**12**	
Dead sprayed weeds			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Shade & Woody Stem Cover on Ground																				
Shade from woody plants			0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	**0**	
Stem (basal) cover on ground			0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	**0**	
Aerial cover of native trees/shrubs rooted in plot (w/ species 4 letter code)			0	0	0	0	0	0	0	4 SPDO	0	0	0	0	0	0	0	0		
Summary Information			T1-BUH1	T1-BUH2	T1-BUH3	T1-BUH4	T4-BWH1	T5-BUH1	T6-BUH1	T6-BWH1	T6-BWH2	S1-BUH1	S2-BUH1	S3-BUH1	S4-BUH1	S6-BUH1	S8-BUH1	S13-BUH1	**Habitat Average**	**Standard Error**
Cover of Native Herbaceous Species			47	80	54	72	61	92	50	4	8	40	100	85	95	80	75	32	**61**	7.3
Lower CI (80%)																			52	
Upper CI (80%)																			70	
Cover of Invasive Herbaceous Species			8	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	**1**	0.6
Lower CI (80%)																			0	
Upper CI (80%)																			2	
Bare Substrate			0	20	44	20	5	2	23	0	57	0	0	0	0	0	15	5	**12**	4.3
Lower CI (80%)																			6	
Upper CI (80%)																			17	
Native Diversity													Currently 4 species meet the diversity criteria: ACMI, AGEX, DECE, DEEL							
Prevalence Index			3	2	2	3	2	3	3	3	3	3	2	3	2	2	3	2	**3**	
Weighted Prevalence Index			167	167	116	248	251	283	262	287	111	325	221	261	205	160	240	218		
Sum of herbaceous plant cover			60	80	56	82	108	98	87	102	43	95	100	97	95	80	85	94		

DAIRY CREEK MITIGATION BANK

2024 Vegetation Monitoring	**Sample Date(s):**	7/22/2024-8/15/24	**Percent Cover %**																	
Buffer Tree and Shrub Data	Origin (N, NN, I)	Wetland Status (1 - 5)	**T1-BU1**	**T1-BU2**	**T1-BU3**	**T1-BU4**	**T4-BW1**	**T5-BU1**	**T6-BU1**	**T6-BW1**	**T6-BW2**	**S1-UW1**	**S2-UW1**	**S3-UW1**	**S4-UW1**	**S6-UW1**	**S8-UW1**	**S13-UW1**	**S15-UW1**	
Native Tree and Shrub Species:																				Row Average
Acer circinatum	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	**0**
Acer macrophyllum	N	4	0	0	0	0	0	0	0	0	0	0	1	1	2	1	0	0	0	**0**
Alnus rubra	N	3	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	**0**
Cornus sericea ssp. ***sericea (alba)***	N	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	**0**
Crataegus douglasii	N	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**0**
Frangula (Rhamnus) purshiana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**0**
Lonicera involucrata	N	3	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	**0**
Mahonia aquifolium	N	4	1	0	1	1	0	0	0	0	0	0	1	0	1	0	0	0	0	**0**
Malus fusca	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Physocarpus capitatus	N	2	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	**0**
Prunus emarginata	N	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Pseudotsuga menziesii	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	**0**
Quercus garryana	N	4	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	**0**
Ribes sanguinium	N	4	1	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	**0**
Rosa pisocarpa	N	3	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	**0**
Sambucus racemosa	N	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	**0**
Spiraea douglasii	N	2	0	0	0	0	4	5	6	3	5	0	0	0	0	0	0	0	0	**1**
Symphoricarpos albus	N	4	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	**0**
Thuja plicata	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**0**
Non-Native Shrub and Tree Species																				
Crataegus monogyna	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Prunus species	NN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Invasive Shrub and Tree Species																				
Rubus armeniacus	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Native Shrub and Tree Count	**Woody Stem Count (Trees and Shrubs)**																			
Acer circinatum	N	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0		**0**
Acer macrophyllum	N	4	0	0	0	0	0	0	0	0	0	0	2	4	4	2	0	0	0	**1**
Alnus rubra	N	3	0	0	0	0	0	0	0	0	0	2	1	1	0	0	1	2	5	**1**
Cornus sericea ssp. ***sericea (alba)***	N	2	0	0	0	0	0	9	0	2	0	0	0	0	0	0	0	0	0	**1**
Crataegus douglasii	N	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	**0**
Frangula (Rhamnus) purshiana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	**0**
Lonicera involucrata	N	3	0	0	0	0	0	3	0	0	10	0	0	0	0	0	0	0	0	**1**
Mahonia aquifolium	N	4	7	0	3	1	0	0	0	0	0	0	4	0	7	1	0	0	0	**1**
Malus fusca	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**0**
Physocarpus capitatus	N	2	0	0	0	0	0	2	0	0	10	0	0	0	0	0	0	0	0	**1**
Prunus emarginata	N	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Pseudostuga menziesii	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	**0**
Quercus garryana	N	4	0	0	0	0	0	0	0	0	0	0	0	2	1	4	2	1	2	**1**
Ribes sanguinium	N	4	2	1	3	0	0	0	0	0	0	0	3	1	2	0	2	0	0	**1**
Rosa pisocarpa	N	3	8	10	9	8	2	1	0	0	0	0	0	0	0	0	1	0	0	**2**
Sambucus racemosa	N	4	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	**0**
Salix sitchensis	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Spiraea douglasii	N	2	0	0	0	0	17	23	33	20	17	0	0	0	0	1	0	0	0	**7**
Symphoricarpos albus	N	4	0	0	0	0	0	0	0	0	0	1	6	7	8	7	5	0	3	**2**
Thuja plicata	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	**0**

Summary Information																				**Habitat Average**	**Standard Error**
Cover of Invasive Shrubs and Trees			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0
Lower CI (80%)																				0	
Upper CI (80%)																				0	
Density of Woody Vegetation		Average per acre	823	629	726	436	920	1839	1597	1065	1791	145	774	823	1113	774	581	532	629	**894**	
Plot Area (shrub/tree plot)	900																				
Per acre multiplier. Input 43,560 if plot area entered in B101 is in sq.meters or 43,560 for	43560																				
Percent Cover of Native Shrubs and Trees			3	4	3	2	5	8	6	4	9	1	5	4	6	3	4	5	4	**4**	0
Lower CI (80%)																				4	
Upper CI (80%)																				5	
Sum of native plants /plot			17	13	15	9	19	38	33	22	37	3	16	17	23	16	12	11	13	**18**	
Does Plot Pass Native Cover Standard based on ≥ 50% Native Cover Y or N?			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Does Plot Pass Native Cover Standard based on ≥ 1000 plants or stems per acre Y or N?			N	N	N	N	N	Y	Y	N	Y	N	N	N	N	N	N	N	N		
Sum of plant cover			3	4	3	2	5	8	6	4	9	1	5	4	6	3	4	5	4	**4**	

DAIRY CREEK MITIGATION BANK

2024 Vegetation Monitoring	Sample Date(s):	11/5/2024 - 11/26/2024																	
Stream Annual Wet Zone Herbs																			
			S1-A1	S2-A1	S3-A1	S4-A1	S5-A1	S6-A1	S6-A2	S7-A1	S10-A1	S11-A1	S11-A2	S12-A1	S12-A2	S13-A1	S14-A1	S16-A1	
Species	Origin (N, NN, I)	Wetland Status (1 - 5)																	**Average**
Native Herbaceous Species																			
Agrostis exarata	N	2	4	0	30	5	70	30	0	5	10	12	15	55	0	0	6	25	**17**
Amaranthus retroflexus	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**0**
Anaphalis margaritacea	N	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	**0**
Beckmannia syzigachne	N	1	0	0	0	0	10	40	0	0	0	0	5	0	0	0	0	1	**4**
Bidens frondosa	N	2	0	0	0	0	0	0	0	0	4	20	0	0	0	0	0	0	**2**
Carex densa	N	1	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5	**1**
Carex ovalis (***leporina***)	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Carex species (assumed FACW or wetter)	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	**0**
Carex obnupta	N	1	0	0	0	0	0	0	0	0	0	8	0	0	0	7	0	4	**1**
Chenopodium album	N	4	0	0	5	0	0	0	0	1	0	1	0	0	0	0	0	0	**0**
Cyperus erythrorhizos	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Deschampsia cespitosa	N	2	7	6	5	0	0	20	0	0	0	0	0	10	1	0	0	0	**3**
Deschampsia elongata	N	2	0	0	0	5	5	0	0	0	0	5	10	0	0	0	0	0	**2**
Eleocharis obtusa (ovata)	N	1	0	5	0	35	0	0	0	0	0	0	0	0	0	2	0	0	**3**
Epilobium ciliatum	N	2	2	0	0	1	0	0	0	15	5	2	3	0	0	0	5	0	**2**
Equisetum arvense	N	3	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Gnaphalium palustre	N	2	0	3	0	0	0	0	0	25	0	40	10	0	0	15	0	0	**6**
Hordeum brachyantherum	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Juncus effusus	N	2	0	0	4	0	0	0	10	1	0	1	3	30	0	0	20	10	**5**
Juncus oxymeris	N	2	0	0	0	0	0	0	5	0	0	1	0	0	0	0	0	0	**0**
Leersia oryzoides	N	1	0	0	0	0	0	0	0	0	2	0	0	0	0	40	0	0	**3**
Lemna minor	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Polygonum (***Persicaria***) ***hydropiperoides***	N	1	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	**1**
Polygonum (Persicaria) lapathifolium	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Polygonum species	N	2	0	25	0	0	5	5	20	0	0	0	0	0	0	3	0	0	**4**
Psilocarphus elatior	N	2	0	0	25	0	0	0	0	0	0	0	0	0	0	0	35	20	**5**
Ranunculus sceleratus	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rorippa curvisiliqua	N	1	0	5	0	0	0	0	0	0	0	0	30	0	0	0	8	0	**3**
Sagittaria latifolia	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix sp. seedling (FAC or wetter)	N	3	0	0	7	0	0	0	0	0	0	0	0	0	0	5	0	0	**1**
Scirpus species (Assumed N)	N	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Veronica americana	N	1	0	2	0	0	0	0	0	0	7	2	5	5	0	0	1	1	**1**
Invasive Herbaceous Species																			
Anthoxanthum odoratum	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Cirsium arvense	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Cirsium vulgare	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Convolvulus arvensis	I	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Holcus lanatus	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Hypericum perforatum	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Mentha pulegium	I	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Phalaris arundinacea	I	2	0	0	5	0	0	5	5	0	0	0	0	0	10	0	0	0	**2**
Schedonorus arundinaceus	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Senecio jacobaea	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Non-Native Herbaceous Species																			
Agrostis stolonifera	NN	3	0	3	0	0	0	0	0	0	0	0	10	0	0	0	0	0	**1**
Hypochaeris radicata	NN	4	0	0	4	0	0	0	0	0	2	0	0	0	0	0	0	0	**0**
Leucanthemum vulgare	NN	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	**0**
Lotus corniculatus	NN	3	0	7	0	0	5	0	10	0	0	0	0	0	1	0	0	0	**1**
Raphanus sativus	NN		0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	**1**
Rumex crispus	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**0**
Sisymbrium species (assumed NN)	NN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	**1**
Trifolium species	NN		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Unknown grass (assumed NN)	NN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	**0**
Unknown seedling	NN		0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	**1**
Vicia tetrasperma	NN	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Bare Substrate																			
Bare ground, unvegetated water, and/or moss			49	20	10	44	0	0	20	31	27	10	9	0	8	28	16	24	**19**
Dead sprayed weeds			0	25	0	0	0	0	30	0	40	0	0	0	60	0	0	0	**10**
Shade, Woody Stem Cover & Water Depth																			
Shade from woody plants			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Stem cover on ground			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Approx. water depth (feet)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**

Summary Information			S1-A1	S2-A1	S3-A1	S4-A1	S5-A1	S6-A1	S6-A2	S7-A1	S10-A1	S11-A1	S11-A2	S12-A1	S12-A2	S13-A1	S14-A1	S16-A1	**Habitat Average**	**Standard Error**
Cover of Native Herbaceous Species			43	50	81	46	90	95	35	48	28	92	81	100	21	72	78	66	**64**	6.4
Lower CI (80%)																			56	
Upper CI (80%)																			72	
Cover of Invasive Herbaceous Species			0	0	5	0	0	5	5	0	0	0	0	0	10	0	0	0	**2**	0.8
Lower CI (80%)																			1	
Upper CI (80%)																			3	
Bare Substrate			49	45	10	44	0	0	50	31	67	10	9	0	68	28	16	24	**28**	5.8
Lower CI (80%)																			21	
Upper CI (80%)																			36	
Native Diversity																4 species met the criteria: PSEL, JUEF, AGEX, GRIN,				
Prevalence Index			3	2	2	1	2	2	2	2	2	2	2	2	1	1	2	2	**2**	N/A
Weighted Prevalence Index			128	114	200	57	185	160	110	104	55	176	152	195	45	100	152	121		
Sum of plant cover			51	60	90	56	95	100	50	69	30	92	91	100	32	72	84	76		

2024 Vegetation Monitoring	**Sample Date(s):**	11/5/2024 - 11/26/2024	***Percent (%) Cover***																		
Stream Biennial Wet Zone Herbs			**S1-BH1**	**S2-BH1**	**S3-BH1**	**S4-BH1**	**S5-BH1**	**S6-BH1**	**S6-BH2**	**S9-BH1**	**S10-BH1**	**S11-BH1**	**S11-BH2**	**S12-BH1**	**S12-BH2**	**S13-BH1**	**S14-BH1**	**S15-BH1**	**S16-BH1**		
Species	Origin (N, NN, I)	Wetland Status (1 - 5)																		**Row Average**	
Native Herbaceous Species																					
Achillea millefolium	N	4	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	10	**1**	
Agrostis exarata	N	2	10	0	0	30	15	80	40	5	65	0	0	0	5	5	40	20	70	**23**	
Alisma trivale	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Amaranthus retroflexus	N	4	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	7	0	**1**	
Anaphalis margaritacea	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	7	0	**1**	
Beckmannia syzigachne	N	1	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	**1**	
Deschampsia cespitosa	N	2	30	5	0	20	0	0	40	20	10	10	25	0	8	30	30	0	10	**14**	
Deschampsia elongata	N	2	5	0	40	6	15	0	20	0	10	70	35	0	50	10	20	10	0	**17**	
Epilobium densiflorum	N	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3	**0**	
Epilobium ciliatum	N	2	0	30	4	1	12	1	0	0	0	0	0	0	1	1	0	12	0	**4**	
Equisetum arvense	N	3	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**	
Gnaphalium palustre	N	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**0**	
Hordeum brachyantherum	N	2	0	0	7	7	0	0	0	0	0	0	5	0	0	0	0	0	0	**1**	
Lupinus rivularis	N	3	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	**1**	
Lycopus americanus	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Plagiobothrys scouleri	N	2	0	0	0	0	0	0	0	0	5	10	0	0	0	0	0	0	0	**1**	
Polygonum (Persicaria) hydropiperoides	N	1	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	**1**	
Psilocarphus elatior	N	2	0	0	5	10	5	1	0	0	0	0	0	0	20	12	0	10	0	**4**	
Scirpus species (Assumed N)	N	1	0	6	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	
Veronica americana	N	1	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	
Veronica peregrina	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Invasive Herbaceous Species																					
Anthoxanthum odoratum	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Cirsium arvense	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Cirsium vulgare	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Convolvulus arvensis	I	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Holcus lanatus	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Hypericum perforatum	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Mentha pulegium	I	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Phalaris arundinacea	I	2	0	10	0	0	0	0	0	1	0	0	0	5	0	0	0	0	0	**1**	
Schedonorus arundinaceus	I	3	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	**0**	
Senecio jacobaea	I	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Non-Native Herbaceous Species																					
Daucus carota	NN	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	**0**	
Holcus lanatus	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	**1**	
Leucanthemum vulgare	NN	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	10	0	**1**	
Lolium perenne	NN	3	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5	0	**1**	
Lotus corniculatus	NN	3	0	7	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	**1**	
Rumex crispus	NN	3	0	0	10	0	5	0	0	0	0	0	2	0	0	0	0	0	0	**1**	
Trifiloium species	NN		0	0	0	0	0	0	0	0	1	0	3	0	5	10	0	0	0	**1**	
Unknown grass seedling (Assumed NN)	NN		0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	**0**	
Bare Substrate																					
Bare ground and/or moss			15	32	28	21	43	7	0	56	8	10	30	8	4	27	10	9	7	**19**	
Dead sprayed weeds			0	0	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	**4**	
Shade, Woody Stem Cover & Water Depth																					
Shade from woody plants			0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	40	**5**	
Stem (basal) cover on ground (w/ species 4-letter code)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	
Aerial cover of native trees/shrubs rooted in plot (w/ species 4-letter code)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Summary Information			**S1-BH1**	**S2-BH1**	**S3-BH1**	**S4-BH1**	**S5-BH1**	**S6-BH1**	**S6-BH2**	**S9-BH1**	**S10-BH1**	**S11-BH1**	**S11-BH2**	**S12-BH1**	**S12-BH2**	**S13-BH1**	**S14-BH1**	**S15-BH1**	**S16-BH1**	**Habitat Average**	**Standard Error**
Cover of Native Herbaceous Species			85	56	61	79	47	94	100	43	90	90	65	10	87	60	90	66	93	**72**	5.8
Lower CI (80%)																				64	
Upper CI (80%)																				79	
Cover of Invasive Herbaceous Species			0	10	0	0	0	0	0	1	0	0	0	5	0	0	0	0	0	**1**	1
Lower CI (80%)																				0	
Upper CI (80%)																				2	
Bare Substrate			15	32	28	21	43	7	0	56	8	10	30	78	4	27	10	9	7	**23**	5
Lower CI (80%)																				16	
Upper CI (80%)																				29	
Native Diversity																				**3 plants meet diversity criteria- DECE, DEEL, AGEX**	
Prevalence Index-herb strata			2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	3	2	**2**	N/A
Weighted Prevalence Index			210	132	155	155	124	178	200	108	183	180	136	28	195	139	180	245	206		
Sum of herbaceous plant cover			85	73	72	79	57	94	100	44	92	90	70	22	97	73	90	91	93		

DAIRY CREEK MITIGATION BANK

2024 Vegetation Monitoring | Monitoring dates: 11/5/24-11/14/24

Stream Biennial Zone | **Percent Cover %**

Species	Origin (N, NN, I)	Wetland Status (1 - 5)	S1-BW1	S2-BW1	S3-BW1	S4-BW1	S5-BW1	S6-BW1	S6-BW2	S9-BW1	S10-BW1	S11-BW1	S11-BW2	S12-BW1	S12-BW2	S13-BW1	S14-BW1	S15-BW1	S16-BW1	Row Average
Native Tree and Shrub Species:																				
Alnus rubra	N	3	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	**0**
Amelanchier alnifolia	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Cornus sericea ssp. ***sericea***	N	2	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	**0**
Crataegus douglasii	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**0**
Frangula purshiana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Fraxinus latifolia	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Lonicera involucrata	N	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Malus fusca	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Physocarpus capitatus	N	2	0	0	0	1	0	1	0	1	1	1	1	1	1	0	0	0	0	**0**
Pinus ponderosa	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**0**
Populus balsamifera	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	**0**
Populus tremuloides	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Quercus garryana	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Ribes sanguinium	N	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rosa nutkana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rosa pisocarpa	N	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rubus spectabilis	N	3	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	**0**
Salix hookeriana	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix lucida var. ***lasiandra***	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	**0**
Salix scouleriana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix sitchensis	N	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix species	N	2	1	1	1	0	0	1	0	0	0	0	0	1	0	1	1	1	0	**0**
Spiraea douglasii	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Symphoricarpos albus	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	**0**
Thuja plicata	N																			
Non-Native Shrub and Tree Species																				
Crataegus monogyna	NN	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Invasive Shrub and Tree Species																				
Rubus armeniacus	I	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Native Shrub and Tree Count	**Woody Stem Count (Trees and Shrubs)**																			
Alnus rubra	N	3	0	6	0	0	0	0	0	3	0	0	0	0	0	0	0	0	10	**1**
Amelanchier alnifolia	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Cornus sericea ssp. ***sericea***	N	2	0	2	0	0	0	0	5	0	0	0	1	0	1	0	0	0	0	**1**
Crataegus douglasii	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	1	**0**
Frangula purshiana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	**0**
Fraxinus latifolia	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Lonicera involucrata	N	3	1	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	**0**
Mahonia aquifolium	N	4	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Malus fusca	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Physocarpus capitatus	N	2	0	0	5	2	0	6	0	5	3	5	3	3	3	0	0	0	0	**2**
Pinus ponderosa	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**0**
Populus balsamifera	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	1	0	**1**
Populus tremuloides	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Quercus garryana	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**0**
Ribes sanguinium	N	4	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	**0**
Rosa nutkana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rosa pisocarpa	N	3	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	1	2	**0**
Rubus spectabilis	N	3	0	0	0	0	4	0	0	0	1	1	0	0	0	0	0	0	0	**0**
Salix hookeriana	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix lucida var. ***lasiandra***	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	**0**
Salix scouleriana	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix sitchensis	N	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Salix species	N	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Spiraea douglasii	N	2	1	2	3	0	0	7	0	0	0	0	0	5	0	1	5	2	0	**2**
Symphoricarpos albus	N	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Thuja plicata	N	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	**0**
Summary Information																				**Habitat Average** / **Standard Error**
Cover of Invasive Shrubs and Trees			**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0** / 0
Lower CI (80%)																				0
Upper CI (80%)																				0
Density of Woody Vegetation		Average per acre	871	2178	2396	1525	1742	2831	1089	1742	1089	1742	871	1742	1089	5445	1089	2396	3049	**1935**
Plot Area (shrub/tree plot)	200																			

APPENDIX B: PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION 2024:

Photo Point 1 SE: Photo displays a log jam near the mouth of the constructed channel with native grass dominated banks. Photo captured on 11/8/24.

Photo Point 2 SW: Photo displays native dominated plant communities near the straight channel and native grass dominated upland buffer. Photo captured on 11/8/24.

Photo Point 3 SW: Photo displays upland buffer near the straight channel and the inlet of constructed channel 3. Photo captured on 11/8/24.

Photo Point 4 NE: Photo displays the native grass dominated banks of the inlet of constructed channel 2. Photo captured on 11/8/24.

Photo Point 4 SW: Photo displays the upland buffer that runs along the straight channel. Photo captured on 11/8/24.

Photo Point 5 SW: Photo displays constructed channel 2 near the inlet. Photo captured on 11/14/24

Photo Point 6 NE: Photo displays the inlet of constructed channel 1. Photo captured on 11/14/24.

Photo Point 6 SE: Photo displays constructed channel 1 near the inlet. Photo

Photo Point 7 S: Photo displays native dominated plant communities within the upland buffer. Photo captured on 11/8/24.

Photo Point 7 W: Photo displays native dominated plant communities within the upland buffer. Photo captured on 11/8/24.

Photo Point 8 SE: Photo displays constructed channel 1 near the mouth. Photo captured on 11/8/24.

Photo Point 9 N: Photo displays native grass dominated upland near the braded section of the constructed channel. Photo captured on 11/8/24.

Photo Point 9 S: Photo displays native dominated plant communities near the braded section of the constructed channel. Photo captured on 11/8/24.

Photo Point 10 W: Photo displays the upland buffer near the confluence of constructed channels 1 and 2. Photo captured on 11/8/24.

Photo Point 11 S: Photo displays upland buffer near constructed channel 1. Photo captured on 11/8/24.

Photo Point 12 W: Photo displays planting rows in the PSS area and access road. Photo captured on 12/19/24.

Photo Point 12 SW: Photo displays upland buffer area and PSS area. Photo captured on 12/19/24.

Photo Point 13 W: Photo displays upland buffer area. Photo captured on 11/8/24

Photo Point 13 SW: Photo displays ponding in the PSS area and upland buffer. Photo captured on 12/19/24.

Photo Point 14 W: Photo displays planted rows in the PFO area. Photo captured on 11/8/24.

Photo Point 15 N: Photo displays the PEM area. Photo captured on 11/8/24.

Photo Point 15 W: Photo displays the PEM area. Photo captured on 11/8/24.

Photo Point 15 S: Photo displays the PEM area. Photo captured on 11/8/24

Photo Point 16 N: Photo displays the PEM area. Photo captured on 11/8/24.

Photo Point 16 S: Photo displays the PEM area. Photo captured on 11/8/24.

Photo Point 17 N: Photo displayes planted rows within the PSS area. Photo captured on 11/8/24.

Photo Point 17 E: Photo displays planted rows within the PSS area. Photo captured on 11/8/24.

Photo Point 17 S: Photo displays planted rows within the PSS area. Photo captured on 11/8/24.

Photo Point 18 W: Photo displays ponding in the PSS area. Photo captured on 12/19/24.

Photo Point 18 NW: Photo displays planting rows and ponding in the PSS area. Photo captured on 12/19/24.

Photo Point 19 N: Photo displays planted rows within the PFO. Photo captured on 11/8/24.

Photo Point 19 E: Photo displays planted rows within the PFO. Photo captured on 11/8/24.

Photo Point 20 N: Photo displays planted rows in the PSS near the southern boundary of Phase 1. Photo captured on 12/19/24.

Photo Point 20 W: Photo displays the PSS near the southern boundary of Phase 1. Photo catpured on 12/19/24.

Stream Photo Point 1 NW: Photo displays the mouth of the constructed channel and West Fork Dairy Creek. Photo captured on 11/8/24.

Stream Photo Point 1 SE: Photo displays the log jam near the mouth of the constructed channel. Photo captured on 11/8/24.

Stream Photo Point 2 NE: Photo displays the repaired bank of the West Fork of Dairy Creek. Photo captured on 11/8/24.

Stream Photo Point 2 SW: Photo displays the repaired bank of the West Fork of Dairy Creek. Photo captured on 11/8/24.

Stream Photo Point 3 NE: Photo displays the aquatic bench along the straight channel. Photo captured on 11/8/24.

Stream Photo Point 3 SW: Photo displays the aquatic bench along the straight channel. Photo captured on 11/8/24.

Stream Photo Point 4 S: Photo displays constructed channel 3 near the inlet. Photo captured on 11/8/24.

Stream Photo Point 5 SW: Photo displays constructed channel 2 near the inlet. Photo captured on 11/14/24.

Stream Photo Point 6 NE: Photo displays a log jam near the at the end of the braded section of the constructed channel. Photo captured on 11/8/24.

Stream Photo Point 6 SW: Photo displays the costructed channel west of the braded section. Photo captured on 11/8/24.

Stream Photo Point 7 SW: Photo displays the log jam at the end of the braded section of the constructed channel. Photo captured on 11/8/24.

Stream Photo Point 8 E: Photo displays the bradeded section of the constructed channel near the end of channel 3. Photo captured on 11/8/24.

Stream Photo Point 9 N: Photo displays the constructed channel near the end of channel 2. Photo captured on11/14/24.

Stream Photo Point 9 SW: Photo displays constructed channel near the end of channel 2. Photo captured on 11/14/24

Stream Photo Point 10 E: Photo displays a section of constructed channel 1 between the inlet and the end of channel 2. Photo captured on 11/14/24.

Stream Photo Point 10 SW: Photo displays a section of constructed channel 1 between the inlet and the end of channel 2. Photo captured on 11/14/24.

Stream Photo Point 11 N: Photo displays a section of constructed channel 1 between the inlet and the end of channel 2. Photo captured on 11/14/24.

Stream Photo Point 11 W: Photo displays a section of constructed channel 1 between the inlet and the end of channel 2. Photo captured on 11/14/24.

APPENDIX C: DRONE PHOTOS

DAIRY CREEK MITIGATION BANK: DRONE PHOTOS 2023-2024

November 7, 2023: DPP3 facing southwest. Intermittent channels are active for the 1st time after construction.

November 14, 2023: DPP1 facing east. Intermittent channels are active. Herbaceous seed sprouting.

December 8, 2023: DPP3 facing southwest. Intermittent channels spilling into floodplain.

December 8, 2023: DPP2 facing south. Intermittent channels spilling into floodplain.

December 15, 2023: DPP1 facing east. Intermittent channels active.

December 15, 2023: DPP1 facing south. Intermittent channels active.

January 10, 2024: DPP1 facing east. Intermittent channels spilling into floodplain after large rain event.

January 10, 2024: DPP2 facing south. Intermittent channels spilling into floodplain after large rain event.

January 10, 2024: DPP6 facing northwest. Intermittent channels spilling into floodplain after large rain event.

January 25, 2024: DPP3 facing southwest. Intermittent channels spilling into floodplain after record rains in January.

January 29, 2024: DPP1 facing southeast. Intermittent channels spilling into floodplain after record rains in January.

February 1, 2024: DPP2 facing south. Intermittent channels spilling into floodplain after record rains in January.

February 1, 2024: DPP7 facing north. View of inundated riverine wetlands.

February 12, 2024: DPP1 facing east. Intermittent channels active. Woody planting rows can be seen in distance.

February 20, 2024: DPP1 facing northeast. Intermittent channels active.

March 8, 2024: DPP1 facing southeast. Intermittent channels active with minor overbank flow into the floodplain.

March 14, 2024: DPP7 facing north. Intermittent channels active and riverine wetland hydrology.

March 14, 2024: DPP8 facing northeast. Wetlands A and B are inundated.

May 2, 2024: DPP1 facing east. Intermittent channels are dry. New grass growth can be seen.

May 2, 2024: DPP4 facing southeast. New herbaceous growth can be seen in the wetland areas.

May 31, 2024: DPP3 facing southwest.

May 31, 2024: DPP4 facing east. Mowed planting rows can be viewed in distance.

July 2, 2024: DPP3 facing southwest. Mowed planting rows. White color is flowing yarrow.

July 2, 2024: DPP1 facing southeast. Planting rows mowed. White flowers are yarrow.

July 2, 2024: DPP4 facing east. Mowed planting rows.

October 9, 2024: DPP3 facing southwest. Mowed planting rows.

October 9, 2024: DPP1 facing southeast. Mowed planting rows.

November 26, 2024: DPP3 facing southwest. Intermittent channels active.

November 26, 2024: DPP1 facing southeast. Intermittent channels active.

APPENDIX D: CREDIT LEDGER (2022)

DAIRY CREEK MITIGATION BANK CREDIT LEDGER: 6/1/2023 - 12/31/2024

WETLAND CREDIT LEDGER

Date	Transaction Type	Jurisdiction	Permitee / Transaction Information	Permit Number (DSL/Corps)	Wetland Impact Type	Number of Credits (ac.)	Balance of Credits after Transaction (ac.)
6/29/2023	Release	State/Federal	Initial Wetland Credit Release 15% Phase 1 (MBI approval, deed restriction, financial assurance)	n/a	n/a	9.108	9.108
3/12/2024	Withdrawal	State/Federal	Westwood Homes, LLC	APP0064094, NWP-2022-241-1	PFO; Slope	0.11	8.998
3/25/2024	Withdrawal	State/Federal	JT Roth Construction	APP0064742; Corps n/a	PEM; Slope	0.052	8.946
5/7/2024	Withdrawal	State/Federal	Tualatin 124, LLC	APP0064858; NWP-2024-28	PEM; Flats	0.768	8.178
5/8/2024	Release	State/Federal	Second Credit Release 15% Phase 1	n/a	n/a	9.108	17.286
7/9/2024	Withdrawal	State/Federal	Washington County	APP0065032; NWP-2024-44	PEM/PFO; Riverine	0.17	17.116
Wetland Credits Released 2023-2024 (ac.): 18.216				**WL Credits Withdrawn 2023 (ac.): 1.100**			
Total Wetland Credits Released (ac.): 18.216				**Total WL Credits Withdrawn (ac.): 1.100**		**Balance (ac.):**	**17.116**

STREAM CREDIT LEDGER

Date	Transaction Type	Jurisdiction	Permitee / Transaction Information	Permit Number (DSL/Corps)	Stream Impact Type	Number of Credits (lf)*	Number of Credits (ac.)*	Balance of Credits after Transaction (lf / ac.)
6/29/2023	Release	State/Federal	Initial Stream Credit Release 15% Phase 1 (MBI approval, deed restriction, financial assurance)	n/a	n/a	809.55	0.81	809.55 lf / 0.81 ac.
5/8/2024	Release	State/Federal	Second Credit Release 15% Phase 1	n/a	n/a	809.55	0.82	1,619.10 lf / 1.64 ac.
6/13/2024	Withdrawal	State/Federal	QTS Investment Properties Hillsboro, LLC	APP0064540; NWP-2022-481-3	perennial stream	56	0.05656	1,563.1 lf / 1.58344 ac.
6/24/2024	Withdrawal	State/Federal	Washington County	APP0064918; NWP-2024-091	perennial and intermittent	11.23	0.01134	1,551.87 lf / 1.5721 ac.
10/24/2024	Withdrawal	State/Federal	The New Home Co.	APP0064785; NWP-2023-332	perennial and intermittent	36	0.03636	1,515.87 lf / 1.5357 ac.
Stream Credits Released 2023-2024 (lf/ac.): 1,619.10 lf / 1.64 ac.				**Str. Credits Withdrawn 2023-24 (lf/ac.): 103.23 lf / 0.10426 ac.**			*Note that the conversion from lf to sf is a 44:1 ratio.	
Total Stream Credits Released (lf/ac.): 1,619.10 lf / 1.64 ac.				**Total Str. Credits Withdrawn (lf/ac.): 103.23 lf / 0.10426 ac.**		**Balance (ac.):**	**1,515.87 lf / 1.5357 ac.**	