Monitoring Report Cover Sheet Oregon Department of State Lands

Block 1: Report Information COE Permit Number: NWP-2017-476 DSL Permit Number: 60770-RF Permittee: Oregon Wetlands LLC County: Benton Report Date: 08/2024 Monitoring Year: 5 Date Removal-Fill Activity Completed: Year 1 (Year 1, 2, 3, 4, 5, etc.) Date mitigation was completed Grading: 2019 Planting: 2019/2020 Report submitted by: Oregon Wetlands LLC **Block 2: Monitoring Report Purpose** This monitoring report is for monitoring a project that includes: (check all that apply): ☐ Compensatory **freshwater** wetland mitigation for permanent wetland impacts. Compensatory **estuarine** wetland mitigation for permanent wetland impacts. Compensatory **non-wetland** mitigation. Only rectification for temporary impacts that had a monitoring requirement. Voluntary wetland enhancement, creation or restoration (General authorization or individual permit) not funded with money from our wetland mitigation revolving fund. Voluntary wetland enhancement, creation or restoration (General authorization or individual permit) funded with money from our wetland mitigation revolving fund. Mitigation Bank Report Block 3: Results Success Criteria Met? (Y/N) Comments/Reason for failure* Hydrology Yes, 5 of 5 Herbaceous Habitat Class Yes, 5 of 5 Upland Buffer Habitat Yes, 3 of 3 3. Class Scrub-Shrub Habitat Class Yes, 6 of 6 Mixed Forested Riparian Yes, 5 of 5 **Buffer Habitat Class** Sustainability Performance Yes, 3 of 4 PS Sus 4 N.A. this year Standards * see report for detailed information

Remedial work recommended

Deed Restriction or other protection instrument attached (note: if a filed deed restriction was required as a permit condition, please attach a copy):

Previously Submitted

Final Monitoring Report?

GIS Data Submitted?

Requesting release or partial release of bond/credits?

Yes □ No □

Previously Submitted

Yes □ No □

TABLE OF CONTENTS

1.0	REG	ULATO	KY F	3ACKGROUND	2		
2.0	WOI	RK SUM	MAF	RY	2		
3.0	AS-BUILT PLANS						
4.0	HYDROLOGY PERFORMANCE STANDARDS, METHODOLOGY, AND RESU						
	4.1	PERF	ORM	ANCE STANDARDS:	3		
	4.2	METH	1ODC	DLOGY:	4		
	4.3	RESU	LTS.		5		
5.0	VEG	ETATI(ON P	ERFORMANCE STANDARDS, METHODOLOGY AND RES	SULTS5		
	5.1.	PERF	ORM	ANCE STANDARDS	5		
	5.2	METH	łODC	DLOGY	7		
	5.3	VEGE	TATI	ION MONITORING RESULTS	8		
		5.3.1	Herb	paceous Habitat Class	9		
		5.3.2	Upla	and Buffer Habitat Class	9		
		5.3.3	Scru	b-Shrub Habitat Class	10		
		Four o	f six 1	performance criteria for Scrub-Shrub Habitat Class were met	10		
		5.3.4	Mixe	ed Forested Riparian Buffer Habitat Class	10		
6.0	SUST	ΓAINAΒ	ILIT	Y PERFORMANCE STANDARDS, METHODOLOGY AND			
	RES	ULTS	•••••		11		
	6.1.	PERF	ORM	ANCE STANDARDS	11		
	6.2	METH	łODC	DLOGY	11		
	6.3	SUST	AINA	BILTY MONITORING RESULTS	11		
7.0	PHO	TO POI	NT N	MONITORING	12		
8.0	CRE	DIT/FIN	JACL	AL ASSURANCE RELEASE AND CREDIT SALES SUMMA	RY12		
				LIST OF ATTACHMENTS			
Attac	hment		1	Sample Plot Monitoring Data			
	hment		2	Vegetation Monitoring Point Location Map			
	hment		3 4	Photo Monitoring Point Location Map Monitoring Photos			
1 Ituc	11110111			momornig i noto			

1.0 REGULATORY BACKGROUND

The purpose of this report is to summarize the progress of the Marys River Wetland Mitigation Bank (Bank). The Bank is located in Benton County, Township 12 South, Range 5 West, Section 18&19, Tax Lot 1300, Longitude -123.341000°W and Latitude 44.522889°N. The address of the Bank is ~4702 Bellfountain Road, near the City of Philomath, Oregon. The letter of approval for the Bank was signed by DSL on May 15, 2020, and is permitted as DSL permit # 60770-RF and ACOE on May 18, 2020, and is permitted as ACOE permit# NWP-2017-476.

The Bank is 126.64 acres, with primary goals to create (establish) 47.62 acres, enhance (re-habilitate) 45.70 acres, restore (re-establish) 14.18 acres with 15.60 acres of buffer for a native wetland classified as Hydrogeomorphic (HGM) Flats, Depressional and Riverine class and Cowardin Palustrine Emergent (PEM)/Palustrine Scrub-Shrub (PSS)/Palustrine Forested (PFO) class of wetland and/or other aquatic resources. The total potential credits produced (updated 2022) included in Table 1:

Table 1: Credit generation

Method	Ratio	Acres	Credit
Restoration	1:1	14.18	14.18
Enhancement	2:1	45.70	22.85
Creation	1.5:1	47.62	31.74
Buffer (sloughs)	5:1	2.55	0.51
Buffer (upland prairie)	10:1	6.96	0.70
Buffer (riparian forest)	5:1	6.09	1.22
Roads, staging area and south easement	0	3.53	0
TOTAL		126.64	71.20

2.0 WORK SUMMARY

The site reached full saturation in mid-December with all pools at capacity. Much of the winter months were focused on observing hydrology, analyzing plant diversity, and weed control in the upland areas. The delineation light report was finalized and concurred with.

Spot spraying for all non-native species began in mid-April. Oregon Wetlands (OW) crew did the bulk of the early season work while mapping out priority areas and associated timing for contract crew. As anticipated with full establishment, work load was reduced again this year, with contract crews working 3 days in May and June. Early season work focused on upland areas, graminoid buffers and shrub plantings. Once the site began to dry out, work shifted to the wet prairie areas, with the last several weeks focused on the vernal pools. During wet weather, hoeing and hand pulling were utilized instead of spot treatments. Riverine habitats were targeted in late summer when river levels were lowest.

Mowing was utilized for access and as a management tool in various areas to prevent seed set of undesirable species and enhance detection for follow-up treatments. Access trails were mowed in early-

June to provide access through the site targeting areas of future vegetation control and avoid tall vegetation. Several sections in riparian buffer, prairies, and sections of the graminoid buffer were all mowed early to prevent non-native seed set and was followed with additional spot spraying. Once the majority of native species set seed, all the upland and wetland prairie areas as well as city berm were mowed in early September to spread seed and prepare for fall and subsequent spring weed control efforts. Once mowing was completed the vernal pool areas, tree/shrub plantings and small strips between vegetation types were the only un-mowed areas. Following mowing, OW crew covered the site weekly through early November targeting all non-natives and undesirable woody species.

Selective broadcast herbicide treatments were utilized in various areas to control non-native species. Upland prairie areas received a grass-specific treatment to control non-natives grasses but retain Roemers fescue in early November. The city berm and graminoid buffers received a broadleaf specific treatment in spring, with timing based on hydrology and weed germination in each area. Once grass species germinated from fall rains and sedge/rush species had adequate growth to prevent injury, the entire wet prairie area received a grass specific treatment.

Table 2 - Summary of Restoration Activities at Marys River Mitigation Bank from September 2023 through July 2024

Activity	Location
Spot treatment/manual weed control	All non-native vegetation and undesirable woody species targeted
Grass specific weed control	Upland prairie/wet prairie (fall)
Broadleaf specific weed control	City berm, graminoid buffer
Mowing 2023/24	Access trails, select vegetation control areas (June 23'), City berm and all accessible areas except vernal pools and woody plantings (September 22')

3.0 AS-BUILT PLANS

The as-built plans were submitted with as-built report in December 2019.

4.0 HYDROLOGY PERFORMANCE STANDARDS, METHODOLOGY, AND RESULTS

In addition to the description below, hydrology performance standards are summarized by year in Table 3, results are summarized in Table 4 and monitoring locations illustrated in Attachment 3. The delineation light was completed and concurred with this year and included in Attachment 5.

4.1 PERFORMANCE STANDARDS:

Most of the proposed hydrologic enhancements will have site-wide effects, therefore most of the performance criteria for hydrology relate to changes in hydroperiod in addition to typical wetland hydrology indicators. Table 3 summarizes the performance criteria by year as described below.

PS Hydro l. Excavate vernal pools, construct low berms and eliminate extensive ditch network. This will be documented in year one with as-built report. For the purposes of this document, vernal pools are

defined as shallow vegetated wetlands that are inundated for at least 8 weeks from January through April, but typically dry completely by early to mid-summer and often, though not always, support annual members of native plant genera such as *Gratiaola*, *Navarettia*, *Plagioboterys*, and *Downingia*.

PS Hydro 2. At least 5 vernal pools will hold water for at least 8 weeks between January and April. This will be documented with November-March fills dates, depth of inundation and duration of ponding. This will be tracked for a minimum of 2 years with normal precipitation, prior to delineation "lite" completion and discontinued after concurrence.

PS Hydro 3. Ditches & tiles effectively disabled, there will be no evidence of ditch or tile outfalls continuing to flow. The east edge of the site will be patrolled at least twice in initial 2 winters after the soil profile is saturated to look for subsidence of ditch fills, tile blow-outs, or point-source flows into the Bellfountain roadside ditch. Any such occurrences will be mapped and remediated in the following dry season and described in the annual monitoring report.

PS Hydro 4. Absence of significant erosion. Erosion control BMP's will be employed as needed to prevent downcutting where water spills over berms or other impoundments, to minimize erosion from the lagoon slopes, and to minimize deposition into Bellfountain roadside ditch. To document this PS, all berm tops and spillway areas, the toe of the lagoon slope, as well as the full length of the tax lot boundary along Bellfountain road will be monitored for evidence of erosion or sediment deposition shortly after major rain events in initial years, until vegetation is established. Deposits of more than a few inches of sediment will be tracked back to the source and additional BMPs applied in the same season, to be documented with photo points in the annual monitoring report.

PS Hydro 5. Final delineation. The extent of wetland restoration, creation, and enhancement achieved will be confirmed by a delineation conducted according to DSL's "delineation light" protocols in spring of a year when precipitation is in normal range, during or after the 3rd growing season. When the delineation has been confirmed, the sponsor will provide the agencies with an updated Figure 8 and Exhibit D credit table showing any corresponding adjustments to the credit yield.

Table 3: Hydrology and construction performance standards summarized by year.

Year	Hydrology	Monitoring Method
	Performance Standard	
1	PS 1	As-built Report
2	PS 2	November-March fill dates, depth of inundation and
		duration of ponding
2	PS 3, PS 4	Visual observations following major precipitation events
3	PS 2	November-March fill dates, depth of inundation
		and duration of ponding
3	PS 3, PS 4	Visual observations following major
		precipitation events
3 or	PS 5	DSL's "delineation light" protocol
later		.
4 (only	PS 2, PS 3, PS 4	Will follow above protocols until final
if		delineation is completed
needed)		•

4.2 METHODOLOGY:

Site visits will be conducted throughout the winter and spring (November-May) to document fill dates and depth of inundation for at least 5 vernal pools and to ensure they are holding water for at least eight weeks from January-April. The east edge of the site will be patrolled at least twice in the initial 2 winters after the soil profile is saturated to look for subsidence of ditch fills, tile blow-outs, or point-source flows into the Bellfountain roadside ditch. All berm tops and spillway areas, the toe of the lagoon slope, as well as the full length of the tax lot

boundary along Bellfountain road will be monitored for evidence of significant erosion or sediment deposition shortly after major rain events in initial years, until vegetation is established.

Delineation: The extent of wetland restoration, creation, and enhancement achieved will be confirmed by a delineation conducted according to DSL's "delineation light" protocols in spring of a year when precipitation is in normal range, during or after the 3rd growing season. When the delineation has been confirmed, the sponsor will provide the agencies with an updated Figure 8 and Exhibit D credit table showing any corresponding adjustments to the credit yield.

4.3 RESULTS

The site met all hydrology performance standards in spring 2022. Extensive hydrology monitoring of all elevated areas, and areas that were not previously wetland was completed in spring 2022. Additional data plots were collected in spring 2023 to complete field data sheets. The full delineation light report is included in attachment 5 and was concurred with in July 2023.

- *Hydrology PS 1*: **Met**, As-built report submitted December 2019.
- *Hydrology PS 2*: **Met**, 2022.
- *Hydrology PS 3*: **Met**, 2022.
- *Hydrology PS 4*: **Met**, 2022
- *Hydrology PS 5*: **Met**, completed spring 2022, finalized spring 2023 and concurred.

5.0 VEGETATION PERFORMANCE STANDARDS, METHODOLOGY AND RESULTS

In addition to the description below, vegetation performance standards are summarized by year in Table 4, data sheets are in Attachment 1 and monitoring locations illustrated in Attachment 2.

5.1. PERFORMANCE STANDARDS

Herbaceous Habitat Class

- PS Herb 1. Absolute native vascular plant cover is ≥40% by year 2, ≥50% by year 3, ≥60% by year 4 and ≥75% by year 5.
- PS Herb 2. Bare ground is ≤40% by year 2, ≤30% by year 3, and ≤20% for the remainder of the monitoring period, excluding areas meeting the definition of vernal pool hydrology.
- PS Herb 3. Non-native invasive plant species cover does not exceed 10% cover in years 2, 3, 4, and 5.
- PS Herb 4. For years 3-5, the herbaceous habitat class will contain a minimum of 6 native species, or groupings of native species, each with at least 5% cover averaged across plots. To qualify as one of the species or groupings to be counted, the species or group will occur in at least 10% of the herbaceous plots and have at least 1% average cover across all herbaceous plots.
- PS Herb 5. Woody cover is \leq 5% throughout the herbaceous habitat class.

Upland Buffer Habitat Class

- PS Upl 1. Absolute native plant cover is $\ge 40\%$ by year 2, $\ge 50\%$ by year 3, $\ge 60\%$ by year 4 and 5.
- PS Upl 2. Bare ground is ≤40% by year 2, ≤30% by year 3, and ≤20% for the remainder of the monitoring period.
- PS Upl 3. Non-native invasive plant species cover does not exceed 10% cover in years 2, 3, 4, and 5.

Scrub-Shrub Habitat Class

- PS Pss 1. Herbaceous absolute native vascular plant cover is \geq 40% by year 2, \geq 50% by year 3, and \geq 60% by year 4.
- PS Pss 2. Native woody plant/stem counts $\ge 1,200$ /ac by year 2, $\ge 1,300$ /ac with measurable cover by year 3 with cover values increasing at least 5% over previous year in years 4-6.
- PS Pss 3. Bare ground is $\leq 40\%$ by year 2, $\leq 30\%$ by year 3 and $\leq 20\%$ by year 4.
- PS Pss 4. For years 3-5, the scrub-shrub habitat class will contain a minimum of 6 native species, or groupings of native species, each with at least 5% cover averaged across plots. To qualify as one of the species or groupings to be counted, the species or group will occur in at least 10% of the scrub-shrub plots and have at least 1% average cover across all scrub-shrub plots.
- PS Pss 5. Native absolute cover (all strata) \geq 70% by year 5.
- PS Pss 6. Non-native invasive plant species cover does not exceed 10% cover in years 2, 3, 4, and 5.

Mixed Forested Riparian Buffer Habitat Class

- PS Rip 1. Native shrubs and herbaceous species will increase cover at least 5% per year after year 3 until native shrub and herbaceous absolute cover reaches 60%.
- PS Rip 2. Bare ground is ≤30% by year 3, and ≤20% for the remainder of the monitoring period, excluding inundation zone within sloughs and areas with 100% canopy closure.
- PS Rip 3. For years 3-5, the mixed forested riparian buffer habitat class will contain a minimum of 6 native species, or groupings of native species, each with at least 5% cover averaged across plots. To qualify as one of the species or groupings to be counted, the species or group will occur in at least 10% of the mixed forested riparian buffer plots and have at least 1% average cover across all mixed forested riparian plots.
- PS Rip 4. Non-native invasive plant species cover does not exceed 10% cover in years 2, 3, 4, and 5.

Table 4: Vegetation Performance Standards

Year	Habitat Class	Vegetation Performance Standard	Monitoring Method
2	Herbaceous	PS Herb 1, PS Herb 2, PS Herb 3 and PS Herb 5	stratified systematic plot
3	Herbaceous	PS Herb 1, PS Herb 2, PS Herb 3, PS Herb 4 and PS Herb 5	stratified systematic plot
3	Herbaceous	PS Herb 1, PS Herb 2, PS Herb 3, PS Herb 4 and PS Herb 5	stratified systematic plot
4	Herbaceous	PS Herb 1, PS Herb 2, PS Herb 3, PS Herb 4 and PS Herb 5	stratified systematic plot
5	Herbaceous	PS Herb 1, PS Herb 2, PS Herb 3, PS Herb 4 and PS Herb 5	stratified systematic plot
2	Upland buffer	PS Upl 1, PS Upl 2 and PS Upl 3	stratified systematic plot
3	Upland buffer	PS Upl 1, PS Upl 2 and PS Upl 3	stratified systematic plot
4	Upland buffer	PS Upl 1, PS Upl 2 and PS Upl 3	stratified systematic plot
5	Upland buffer	PS Upl 1, PS Upl 2 and PS Upl 3	stratified systematic plot
2	Scrub-Shrub	PS Pss 1, PS Pss 2, PS Pss 3, PS Pss 4 and PS Pss 6	stratified systematic plot
3	Scrub-Shrub	PS Pss 1, PS Pss 2, PS Pss 3, PS Pss 4 and PS Pss 6	stratified systematic plot
4	Scrub-Shrub	PS Pss 1, PS Pss 2, PS Pss 3, PS Pss 4 and PS Pss 6	stratified systematic plot
5	Scrub-Shrub	PS Pss 1, PS Pss 2, PS Pss 3, PS Pss 4, PS Pss 5 and PS Pss 6	stratified systematic plot
2	Mixed forested riparian buffer	PS Rip 4	Belt transects
3	Mixed forested	PS Rip 1, PS Rip 2, PS Rip 3 and PS Rip 4	Belt transects

	riparian buffer		
4	Mixed forested	PS Rip 1, PS Rip 2, PS Rip 3 and PS Rip 4	Belt transects
	riparian buffer		
5	Mixed forested	PS Rip 1, PS Rip 2, PS Rip 3 and PS Rip 4	Belt transects
	riparian buffer		

5.2 METHODOLOGY

Monitoring will be conducted using a stratified systematic plot method for the sampling points. Six Transect lines are oriented north/south and are located 280 feet apart with monitoring plots 300 feet apart. Transect T1 is inset 30 feet from the West property line to adequately represent the PSS area, with subsequent transects located 280 feet apart. The first plot at the south end of the T1 is located 50 feet north of the southern property boundary, while the first plot on T2 is 100 feet north of property line, alternating in subsequent transects. Each subsequent plot is located 300 feet apart, until the upland buffer area on T1 and T2. In order to gain additional plots in the buffer area to meet DSL's minimum sample size per habitat class, buffer distance between plots is 100 feet in upland. Plot numbering starts at the southwest corner on T1 and runs north to end of T1 and then south on T2, anticipating likely monitoring pattern, and advantage of entering data in successive order.

In the mixed forested riparian habitat class, belt transects were utilized to document vegetation. Three large trees were selected as representative areas of the entire unit as the starting point for each transect. The transects will be 3 feet wide and 150 ft long, with aspect oriented to pick up multiple habitats. Initial sampling will occur every 45 ft along transects with the ability to increase sampling if additional plots are needed.

The herbaceous sample plots in wetland and upland buffer will be 9 ft² quadrats (3'x 3'), placed to the northwest of each point, nested within a 100 ft² shrub sampling plot (10'x10') centered on the same point. The absolute cover for each plot will be determined for each herbaceous species. If a plot includes bare substrate, the reason will be noted, and the percent coverage of each plot included. Plant counts, in conjunction with herbaceous sampling, will be utilized in the scrub-shrub habitat class for the first 3 monitoring periods until the shrub component naturally expands, at which time absolute cover of each strata will be utilized. In addition to herbaceous sampling in the herbaceous habitat class, absolute cover of the shrub strata within the 100 ft² shrub sampling plot will be assessed to ensure no greater than 5% cover for the duration of the monitoring period. For the belt transects, plots will be 9 ft² quadrats (3'x 3') centered on the belt line. Plant counts, in conjunction with herbaceous sampling will be utilized for the first monitoring period after shrub planting, then absolute cover of each strata will be utilized.

Spread sheets were utilized to group data for each habitat class for comparative analysis. The sample plot data will then be assessed according to the performance standards for diversity, percent cover of each species present, native/non-native, and invasive status, bare substrate, and mean cover of each. The sample mean, standard error and 80% confidence interval will be reported for each performance standard to ensure the estimate reported is within ± 10 units of the true population. Confidence interval will only apply to the herbaceous strata in shrubscrub habitat class until woody plant counts are replaced with absolute cover. For the upland buffer and mixed forested riparian buffer, the sampling will focus on representative areas rather than confidence interval and will be verified by the annual agency walk-through inspections.

During the first year monitoring, all plots were evaluated in early May. Data was collected on all plots with substantial cover, while plots which had little or no cover due to extended hydroperiod were skipped until a second monitoring visit. The dates will be closely replicated throughout subsequent monitoring years until all performance standards are met, but not less than five years. After the site has matured with sample plot data repetitive and all performance standards met, a reduced monitoring effort will be implemented. DSL has to verify standards are being met as long as credits are available; if annual walk-through raises concerns that areas are not meeting standards, continued monitoring of those areas may be required.

5.3 VEGETATION MONITORING RESULTS

Vegetation monitoring was conducted by Ray Fiori on May 21, 2024, and July 26, 2024. Monitoring was timed to correspond with similar stages of plant development from previous years. During first year monitoring, all plots were visited during the first monitoring, with data collection delayed for plots with little cover or inundated until vegetation was established at a second monitoring date. This pattern will be replicated throughout the monitoring period. The split monitoring picks up the early flowering species before they senesce as well as later flowering species that are just beginning to grow in late spring and flowering into the fall. All species on data sheets were either planted on the site or observed during maintenance activities, with remarkably high species diversity. Within the monitoring plots, 56 native species were recorded in the herbaceous plots, 26 species in Scrub Shrub, 27 species in upland buffer and 31 species in the mixed forested riparian area.

2022 was the first year that US Fish and Wildlife service (USFWS) conducted formal species surveys for threatened and endangered species on the site. Two rounds of site visits were conducted to catch peak bloom periods of their target species this year. Surveys were conducted along transects with population estimates included in Table 5. The site will be monitored for the next 10 years as outlined in the downlisting monitoring plan for several species. Within the plan, monitoring will alternate sites each year for the various species, with USFWS and Oregon department of agriculture splitting responsibilities. This table will be updated as additional data is provided by cooperating agencies with 2025 being the next monitoring year.

Table 5: USFWS Population Estimates for T&E Species

Species	Dates	Population	95%	Number	Transect
		Estimate	Confidence	of	dimensions
				Transects	
Bradshaw's	4/18/2022,	5,013	35.5%	33	1 x 470 m
lomatium	5/6/2022		(3,235-		
			6,792)		
Nelson's	6/15/2022,	21,021	31%	18	1 x 470 m
checker-mallow	6/16/2022		(14,498-		
			27,544)		
Willamette	6/15/2022,	10	NA –	NA	NA
daisy	6/16/2022		patches		
-			mapped		
Penstemon	6/15/2022,	3	NA – patch	NA	NA
	6/16/2022		mapped		

5.3.1 Herbaceous Habitat Class

The native herbaceous cover averaged 134.08%, with 56 species occurring within plots. There was 0.61% cover by non-native species and 0.31% non-native invasive species. Overall average bareground was 1.63% and only 0.77% excluding vernal pools. The species diversity standard was met with 24 native species represented in more than 10% of the plots with over 1% cover throughout all plots, and within those plots average cover exceeded 5%.

Five of five of the performance criteria for **Herbaceous Habitat Class** vegetation were met.

Required: PS Herb 1. Absolute native vascular plant cover is ≥40% by year 2, ≥50% by year 3, ≥60% by year 4 and ≥75% by year 5. -- *Met*, with 134.08% of the absolute cover is native species.

Required: PS Herb 2. Bare ground is ≤40% by year 2, ≤30% by year 3, and ≤20% for the remainder of the monitoring period, excluding vernal pools (NOTE: standard error is too high if we exclude VP plots from calculation, so both means are reported). –*Met*, overall average bareground was 1.63% and only 0.77% excluding vernal pools.

Required: PS Herb 3. Non-native invasive plant species cover does not exceed 10% cover in years 2, 3, 4, and 5.-Met, non-native invasive cover was 0.31%.

Required: PS Herb 4. For years 3-5, the herbaceous habitat class will contain a minimum of 6 native species, or groupings of native species, each with at least 5% cover averaged across plots and present in 10% of plots with greater than 1% cover across all plots —Met, 24 native species met criteria with 56 native species present in monitoring plots.

Required: PS Herb 5. Woody cover is \leq 5% throughout the herbaceous habitat class. – Met, woody cover was 0.1%.

5.3.2 Upland Buffer Habitat Class

The native herbaceous cover averaged 138.89%, with 27 species occurring within plots. There was no cover by non-native invasive species, 3.33% cover of non-native species. Bareground represented 0% cover.

All performance criteria for **Upland Buffer Habitat Class** were met.

Required: PS Upl 1. Absolute native plant cover is $\geq 40\%$ by year 2, $\geq 50\%$ by year 3, $\geq 60\%$ by year 4 and 5. **Met**, *Absolute native cover was 138.89%*.

Required: PS Upl 2. Bare ground is $\leq 40\%$ by year 2, $\leq 30\%$ by year 3, and $\leq 20\%$ for the remainder of the monitoring period. **Met,** *Bare ground was 0%*

Required: PS Upl 3. Non-native invasive plant species cover does not exceed 10% cover in years 2, 3. 4, and 5. **Met**, *non-native invasive cover was 0%*.

5.3.3 Scrub-Shrub Habitat Class

The native herbaceous cover averaged 100.83%, with 17 species occurring within plots. Native woody cover averaged 60.83% with 9 species occurring within plots. There is 0% cover by non-native invasive species. Bareground represented 6.67% cover. The species diversity standard was met with 18 species represented in more than 10% of the plots with over 1% cover throughout all plots, and within those plots average cover exceeded 5%.

Five of six performance criteria for Scrub-Shrub Habitat Class were met

Required: PS Pss 1. Herbaceous absolute native vascular plant cover is $\ge 40\%$ by year 2, $\ge 50\%$ by year 3, and $\ge 60\%$ by year 4. **Met**, absolute native cover is 100.83%

Required: PS Pss 2. Native woody plant/stem counts $\ge 1,200$ /ac by year 2, $\ge 1,300$ /ac with measurable cover by year 3 with cover values increasing at least 5% over previous year in years 4-6. **Met,** average native woody cover 2023=51.75%, 2024=60.83%.

Required: PS Pss 3. Bare ground is $\leq 40\%$ by year 2, $\leq 30\%$ by year 3 and $\leq 20\%$ by year 4. **Met**, *bare ground was 6.67%*.

Required: PS Pss 4. For years 3-5, the scrub-shrub habitat class will contain a minimum of 6 native species, or groupings of native species, each with at least 5% cover averaged across plots and present in 10% of plots with greater than 1% cover across all plots. **Met,** 18 native species met criteria with 26 native species present in monitoring plots.

Required: PS Pss 5. Native absolute cover (all strata) $\geq 70\%$ by year 5. **Met**, *year* 5 = 161.66%.

Required: PS Pss 6. Non-native invasive plant species cover does not exceed 10% cover in years 2, 3, 4, and 5. **Met**, non-native invasive plant cover was 0%.

5.3.4 Mixed Forested Riparian Buffer Habitat Class

The native cover averaged 169.17%, with 31 species occurring within plots. There was only 4.58% cover by non-native species, and no invasive species. Bareground represented 2.22% cover excluding areas with canopy closure or within inundation zones and 16.25% cover overall. The species diversity standard was met with 18 species represented in more than 10% of the plots with over 1% cover throughout all plots, and within those plots average cover exceeded 5%. Belt transect #4 was added in 2022 to be representative of riverine wetland areas, sharing the same starting point as belt #2 and oriented westerly.

Five of five of the performance criteria for **Mixed Forested Riparian Buffer Habitat** Class vegetation were met.

Required: PS Rip 1. Native shrubs and herbaceous species will increase cover at least 5% per year after year 3 until native shrub and herbaceous absolute cover reaches 60%. **Met.** *native absolute cover was 169.17%.*

Required: PS Rip 2. Bare ground is $\leq 30\%$ by year 3, and $\leq 20\%$ for the remainder of the monitoring period, excluding inundation zone within sloughs and areas with 100% canopy

closure **Met**, bareground was 2.22% cover excluding areas with canopy closure or within inundation zones.

Required: PS Rip 3. For years 3-5, the mixed forested riparian buffer habitat class will contain a minimum of 6 native species, or groupings of native species, each with at least 5% cover averaged across plots and present in 10% of plots with greater than 1% cover across all plots. **Met**, 18 native species met criteria with 31 native species present in monitoring plots..

Required: PS Rip 4. Non-native invasive plant species cover does not exceed 10% cover in years 2, 3, 4, and 5. **Met**, non-native invasive cover was 0%.

6.0 SUSTAINABILITY PERFORMANCE STANDARDS, METHODOLOGY AND RESULTS

6.1. PERFORMANCE STANDARDS

In addition to the description below, sustainability performance standards are summarized by year in Table 6.

- PS Sus 1. By the end of the 3rd growing season year, submit an updated long term management plan and endowment budget to DSL, Corps, and preferred steward, addressing section V. Maintenance and Monitoring of the Bank section F of MBI for approval.
- PS Sus 2. By the end of 4th growing season, submit evidence that 60% of estimated endowment has been deposited in an escrow account or transferred to a steward approved by DSL & Corps. This standard may be delayed, coinciding with credit releases if sales are below average.
- PS Sus 3. By end of the 5th growing season, submit evidence that 80% of estimated endowment has been deposited in an escrow account or transferred to a steward approved by DSL & Corps. This standard may be delayed, coinciding with credit releases if sales are below average.
- PS Sus 4. For the final credit release, submit the final site protection instrument after review & resolution of drafts by steward & agencies and submit evidence that 100% of the endowment amount approved by agencies has been transferred to the steward approved by DSL & Corps.

Year	Sustainability Performance Standard	Monitoring Method
3 or sooner	PS Sus 1	Document verification
4	PS Sus 2	Document verification
5	PS Sus 3	Document verification
6	PS Sus 4	Document verification

6.2 METHODOLOGY

Sustainability standards are intended to ensure that the site protection, long term management plan and endowment are adequate and secured. Benchmarks in this standard are intended to provide a timeline for reviews of management plan, targets for endowment funding associated with credit release schedule, and ensure long term site protection.

6.3 SUSTAINABILTY MONITORING RESULTS

The Wetlands Conservancy and Oregon Wetlands LLC will continue our stewardship partnership and have no proposed changes to the long term management plan or endowment funding. Any final updates to these documents will be completed while finalizing the site protection instrument for the final credit release. An initial contribution to endowment account of \$50,000 was completed in December 2021. An additional \$60,000 was contributed in September 2022, funding 75% of the proposed endowment. An additional \$35,000.00 was

contributed in December 2023, funding 100% of the proposed endowment. A final contribution will be completed this fall in conjunction with final approval of long-term stewardship package..

7.0 PHOTO POINT MONITORING

Photos from the photo points are included as Attachment 4 and a map of photo point locations is located in Attachment 3. Photos were taken on 05/21/2024.

8.0 CREDIT/FINACIAL ASSURANCE RELEASE AND CREDIT SALES SUMMARY

CREDIT SUMMARRY

An initial 21.423 credits (30%) were released in May 2020, due to meeting all the requirements for Release #1 and Release #2. Release #3 (2.524 credits) was authorized March 2021 due to meeting all requirements. Release #4 (2.524 credits) was completed 12/13/22. Release #5 (9.521 credits) was completed 1/25/23. Release #6 (6.997 credits) was completed 6/6/23. Release #7 (6.998 credits) was completed 10/09/23. With submittal of this report we are requesting Release #8 (7.141 credits) as we are meeting all applicable performance standards. Credit release schedule is included in Table 7 and all credit sales to date are included in Table 9.

FINANCIAL ASSURANCE SUMMARRY

Initial financial assurance was secured from Farm Credit Services in December 2019 for \$209,943.00 and amended to meet Corps requirements for notification in April 2020. The first reduction of \$66,916.00 was completed in March 2021, for a total amount carried forward of \$142,926.00. The second reduction of \$42,826.00, for a total amount carried forward of \$100,100.00 was completed in December 2021. The third reduction of \$34,100.00, for a total amount carried forward of \$66,000.00 was completed November 2022. The fourth reduction of \$22,000.00 was completed October 2023, for a total amount carried forward of \$44,000.00. With submission of this report we are requesting a fifth reduction of \$17,600.00, for a total amount carried forward of \$26,400.00. A summary of the financial assurance release schedule is included in Table 8.

Table 7: Credit Release Schedule

% of Enhancement & buffer credits released (cumulative)	Number of Enhancement credits (cumulative)	% of Restoration & Creation credits released (cumulative)	Number of Restoration & Creation credits (cumulative)	Total Credit Release (cumulative)	Performance Standards to be met	Year
25%	6.309	25%	11.543	17.852	Approval of MBI, recording of deed restriction, subordination of any liens on title, and posting of financial assurance.	2019
5% (30%)	1.262 (7.571)	5% (30%)	2.309 (13.852)	3.571 (21.423)	Initial seeding/planting, as-built report	2019 or 2020
Up to10% (40%)	2.524 (10.095)			2.524 (23.947)	1st growing season performance standards,	2020
Up to 10% (50%)	2.524			2.524	2 nd growing season	2021

	(12.619)			(26.471)	performance standards	
Up to10% (60%)	2.524 (15.143)			2.524 (28.995)	3 rd growing season performance standards, draft LTMP & steward acceptance submitted	2022
Up to 10% (70%)	2.524 (17.666)	Up to 40% (70%)	18.468 (32.320)	20.992 (49.987)	4 th growing season performance standards, post-construction delineation concurred*, 60% of endowment funded	2023
Up to10% (80%)	2.524 (20.190)	10% (80%)	4.617 (36.937)	7.141 (57.128)	5 th growing season performance standards, 80% of endowment funded	2024
Up to 20% (100%)	5.048 (25.237)	20% (100%)	9.234 (46.171)	14.282 (71.408)	** DSL approval of any additional site protection; Co-chair Agencies approve updates to the LTMP & stewardship docs; 100% of endowment funded.	2025

^{*} Credits >30% for wetland creation and restoration areas will be released after a delineation proves that wetland criteria have been achieved. If wetland acreage gains are apparent earlier, Co-chairs may make a partial release earlier.

Table 8: Financial Assurance Release Schedule

Assurance	Release Benchmark	Est. Date of	Amount	Total
Amount		Release	Released	Remaining
All Credit Sales	As-Built Report	December 2019	TBD	\$209,843.00
\$209,843.00	1st Monitoring Report	December 2020	\$66,916.00	\$142,926.00
\$142,926.00	2nd Monitoring Report	December 2021	\$42,826.00	\$100,100.00
\$100,100.00	3rd Monitoring Report/Delineation "lite"	December 2022	\$34,100.00	\$66,000.00
\$66,000.00	4th Monitoring Report	December 2023	\$22,000.00	\$44,000.00
\$44,000.00	5th Monitoring Report	December 2024	\$17,600.00	\$26,400.00
\$26,400.00	6th Monitoring Report	December 2025	\$15,400.00	\$11,000.00
\$11,000.00	Bank Closure	2030	\$11,000.00	

^{**}The release associated with approval of the long-term stewardship package may occur as soon as performance standards have been met for 3 years and the % of the endowment funded is equal to the % of credits released. Thereafter, each incremental credit release must have an equivalent % of the endowment funded. If the funding is via an endowment, it will be fully funded two years before handoff to the long-term steward, or an additional two years annual costs provided so the steward need not diminish the principal before it can grow.

Table 9: Credit Sales Summary

DATE	NAME	LOCATION	DSL	CORP	ADDED	HGM/COWARDIAN	SOLD	REFUNDED	SUSPENDED	BALANCE
05/18/2020	CORPS/DSL INITIAL RELEASE- 30%		Permit	Number	21.423					21.42
08/01/2019	Oregon Wetlands LLC	T12S, R05W, sect. 18	60770-RF	NWP-2017- 476		Flats/PEM	0.19			21.23
5/21/2020	Georgia- Pacific	Sect. 3, T 14 S, Range 4 W	62090-RF	NWP- 2014-238		Flats/PEM & PSS	2.57			18.663
11/30/2020	Alliance Storage	Sect. 24, T 11 S, Range 5 W	62799-RF	N.A.		Flats/PEM, PFO & PSS	0.37			18.293
03/02/21	CORPS/DSL RELEASE 2 - 10%				2.524					20.817
1/13/21	New Holland	Sect. 11, T 12 S, Range 5 W, 2625 SE 3rd Street, Corvallis, OR	62220-RF	NWP- 2019-406		Flats/PEM & PSS	2.69			18.127
3/3/21	West 18th Avenue Eugene	Sect. 04, T 18 S, Range 04 W, Eugene, OR	62462 -RF	NWP- 2020-058		Flats/PEM	0.69			17.437
5/5/21	Linn Economic Development	Millersburg	62699-RF	NWP- 2020- 085-1		Depressional/PEM& PSS	5.266			12.171
5/27/21	Wilco Eugene	West 11th Avenue & Willow Creek Road, Eugene, OR	63008-RF	NWP- 2020-473		Flats/PEM & PSS	0.75			11.421
6/21/21	Forest Meadows MHC 62 Home Expansion	1284 N 19th Street, Philomath, OR	62322-RF	2018- 545-1		Flats, Depressional/PEM, PSS & PFO	1.78			9.641
8/25/21	ODOT OR569: Green Hill Rd Coburg Rd. (Eugene) Sec.	T 17S, Range 04W, Sections 15 and 32	63437-GP	NWP- 2021-188		Flats, Depressional/PEM & PSS	0.056			9.585

Table 9: Credit Sales Summary

9/23/21	Knighton Seed Warehouse	T 12S, Range 03W, Section 7, Tangent, OR	63266-RF	NWP- 2020-330 (non- jurisdicti onal)		Flats/PEM & PFO	0.46	9.125
12/13/22	CORPS/DSL RELEASE 3 - 10%				2.524			11.649
3/8/22	US 20 Philomath Couplet	T 12S, Range 06W, Section 12, Philomath, OR	63595-GP	NWP 43		Flats/PEM & PSS	0.18	11.469
6/30/22	Copart - Eugene - Storage Lot Expansion	T 17S, Range 04W, Section 04, Eugene, OR	63198-RF	NWP- 2021-156		Depressional/PEM	3.61	7.859
9/23/22	Upper Division and Graduate Student Housing	T 11S, Range 05W, Section 35CC, Corvallis, OR	63921-RF	NWP- 2018- 00088		Flats/PEM	1.12	6.739
9/20/22	TGC Structural - Albany	T 11S, Range 03W, Section 30, Albany, OR	63943-GP	NWP- 2022-342		Flats/PEM	0.13	6.609
9/30/22	Wake Robin	T 12S, Range 05W, Section 11, Corvallis, OR	63134-RF	N.A.		Flats/PEM	2.19	4.419
1/25/23	CORPS/DSL RELEASE 4- 10% enhancement and 1/3 of 40% Restoration/ Creation, 10% enhancement, endowment funding and delineation light				9.521			13.94
6/6/23	CORPS/DSL RELEASE 5- 1/3 of 40%				6.997			20.937

Table 9: Credit Sales Summary

6/12/23	Restoration/ Creation, 10% enhancement, endowment funding and delineation light Chapel Drive Road Widening	Chapel Drive (19th to Bellfountain), Philomath, OR	64269-RF	NWP- 2023-124		Flats, Depressional/PEM, PSS & PFO	0.34		20.597
10/23/23	Project CORPS/DSL RELEASE 6 - 1/3 of 40% Restoration/C reation, 10% enhancement, endowment funding, delineation light CREDITS				6.998				27.595
12/4/23	Applegate Landing No. 4 and 5	T18S, R06W, Section 01, Veneta, OR	63317-RF	NWP- 2021-257		Depressional/PEM	1.4		26.195
4/4/24	Benton County Boardwalk	3600 NE Lancaster Street Corvallis, OR 97330	64663-RF	N.A.		Flats, PEM/PSS	0.15		26.045
						TOTAL	23.942		

	rys River Wetland																															
Herbad	ceous Wetland Hab																															
Specie	May 21, 2024 & J s Observed	uly 26,2024	4" Avg. % Cover	Present											Plot #s																	
Botanical Name	Common Name	Origin	Each	In 10%		20* 21*	22	23 2	4 25* :	26* 27*	28 29*	30* 3	32 3	3* 34*	35 36	37*	38* 39*	40 41	1 42	43 46 4	7 48	49* 50*	51 52 5	3 54* 5	5* 56	57 58	59* 6	0* 61	62* 63 6	65*	66* 67*	68* 69 70
Scrub/Shrub Species foun Salix scouleriana	d in plots Scoulers willow	100ft ² Plot native	Species 0.10	of Plots																										5		
Herbaceous Forb Species Achillea millefolium	- Absolute cover Yarrow	9ft ² Plot native	1.33	Sampled YES					+		10					\vdash		25	5	10 5	15			-					\rightarrow		-	
Alisma gramineum	Narrow leaf water plantain	native	0.00								Ĭ.			=										1						\blacksquare		
Alisma subcordatum Alisma triviale	Water plantain Northern water plantain	native native	4.49 0.00	YES								3	35									40		15			10		10		70 10	30
Allium amplectens Asclepias speciosa	Slim-leaf Onion Showy Milkweed	native native	0.00						+							\vdash			+													
Bidens cernua	Nodding beggarticks	native	0.00																													
Camassia leichtlinii Camassia quamash	Great Camas (tall) Common camas	native native	0.00																													
Centuarium erythraea Cirsium arvense	European centuary Canada thistle	non-native	0.00																													
Clarkia amoena	Farewell-to-Spring	native	0.00						\Box		\blacksquare							Η,	\blacksquare		\blacksquare			\blacksquare				\blacksquare	\blacksquare			
Clarkia purpurea ssp quadriv Collomia grandiflora	Large-flowered Collomia	native native	0.10 0.00															5														
Diplacus tricolor Downingia elegans	Tri-colored monkeyflower Common downingia	native native	0.00 3.78	YES					30			20 3	30 1	5		10				10							30			10		30
Epilobium ciliatum	Fringed willoweed	native	0.10	0					Ť							Ĭ				T.							Ĕ	5		Ĭ		
Epilobium brachycarpum Epilobium densiflorum	Dense spike-primrose	native native	0.00 3.78	YES						30				10	10 15			10 5	5	1	0 5		20	1	10	20		5	5			25
Erigeron decumbens var. de Eriophyllum lanatum	Willamette daisy Oregon sunshine	native native	0.00 1.33	YES				T	+			Ŧ	$+$ \Box	_		H		20) 5	15				$+$ \top		20	$+$ \top	$+$ \Box	$+\Gamma$			
Galium trifidum var. pacificur	n Small bedstraw	native	0.00																ΙĬ	Ίľ	Ħ						Ш		II			\blacksquare
Geranium dissectum Geum macrophyllum	Cutleaf geranium Large-leaves Avens	non-native native	0.00									_																				
Gnaphalium palustre Gnaphalium stramineum	Cudweed Cotton batting cudweed	native native	1.22 0.00					Ŧ			+	4					40		Ŧ		Ŧ	20					H	+	+F		-	
Gratiola ebracteata	Bractless hedgehyssop	native	0.00																													
Grindelia integrifolia Hypochaeris radicata	Willamette Gumweed Catsear dandelion	native non-native	16.84 0.00	YES		70 50	40	40 2	5 30	30 30	10	30		U	50	10		40 20		10 40 1	0 30		20 30	2	20		3	0 60	50 30	10		
Kickxia elatine Lactuca serriola	Sharp-point fluellin Prickly lettuce	non-native	0.00								\blacksquare								П									\blacksquare			\blacksquare	
Ligusticum apiifolium	Celeryleaf-Licoriceroot	native	0.00													ш			ш													
Lomatium bradshawii Lomatium nudicaule	Bradshaw's desertparsley Bare-stem Lomatium	native native	0.20					Ę											++		5			++								
Lomatium triternatum Lotus pinnatus	Spring gold Meadow Deervetch	native native	0.00 0.10																													-
Lotus purshianus	Spanish clover	native	4.29	YES						10 30	10 10				60			10)	3	0 10		15			10						15
Ludwigia palustris Lupinus bicolor	Marsh seedbox Two-colored lupine	native	0.00						+			_				Н		5		1	0 15				+			+				
Lupinus polyphyllus Lupinus rivularis	Large-leaf Lupine riverbank lupine	native	2.65					1													\blacksquare		20 7	0	\blacksquare	30		\blacksquare				
Lythrum hyssopifolium	Hyssop loosestrife	non-native	0.00						\blacksquare		\blacksquare					\blacksquare			\blacksquare					\blacksquare				\blacksquare		\blacksquare	\blacksquare	
Lythrum portula Madia elegans	Spatulaleaf loosestrife Showy Tarweed	non-native native	0.00 2.96	YES					10	10	30							15	5 30	3	0 20											
Madia sativa Madia glomerata	Coast tarweed Cluster tarweed	native native	0.10 1.33	YES					++									10	15	20 1	0 10			-			-					
Madia gracilis	Grassy tarweed	native	0.20	120							5									10							LL.					
Mentha pulegium Microseris laciniata	Pennyroyal cutleaf silverpuffs	invasive native	0.31 0.92								5				20				15	10								U				
Microsteris (Phlox) gracilis Mimulus guttatus	Slender-leaved Microseri Common monkey-flower	native	0.20 1.63	YES				1)										5	1	10		10	++		20		15	10			
Montia linearis	Narrow-leaf Miners Lettuce littleleaf minerslettuce	native	0.00	720	=			Ŧ	\Box	=	\blacksquare	_	\blacksquare	_		\Box			Ħ	\blacksquare				\blacksquare				Ï		\blacksquare	\blacksquare	
Montia parvifolia Myosurus minimus	Tiny mousetail	native native	0.00													ш																
Navarretia intertexta Parentucellia viscosa	Navarretia Yellow parentucellia	native non-native	0.00						++					_				-	+++		+ +			++				+++				
Perideridia oregana Persicaria hydropiperoides	Oregon Yampah	native native	0.00						Ħ										H		Ħ								#			
Phacelia heterophylla	Varileaf phacelia	native	0.00																													
Plagiobothrys figuratus Plagiobothrys scouleri	Fragrant popcorn flower Scouler's popcorn flower	native	5.41 0.41	YES		20 25	30	1	70		10								10	10	0 5							5	30			20
Plectritis congesta Polygonum aviculare	Rosy Plectritis Common Knotweed	native non-native	0.41 0.00								15					П			H	5								\blacksquare	Ŧ		$-\Box$	
Potentilla glandulosa	Sticky Cinquefoil	native	0.00	VES					П	20	E 45					П		20	П				45									
Potentilla gracilis Prunella vulgaris	Slender Cinquefoil Common selfheal	native native	2.45 3.06	YES YES				10 1		20 15 20	5 15	_			30			10 10		25 1	5 0 10		15 15 10			10						
	Western buttercup Straightbeak buttercup	native	0.71 5.51	YES				5			35	Ŧ				F		F	10 40				10 35 20 1	5	Ŧ	25		\blacksquare	20			15
Rorippa curvisiliqua	Western yellowcress	native	0.10					5 1			15	10		10	10	10		15			0 10		33 20 1		20	- 23	Ħ		الثا	20	5	
Rumex salicifolius Sanguisorba annua (occiden	Willow Dock Western Burnet	native native	3.98 0.31	YES				5 1			15	10		10	10	10		15			0 10			2	20					30		15
Sidalcea campestris Sidalcea nelsonii	Meadow Checkermallow Nelson's checkermallow	native native	0.61 2.24	YES							30	Ŧ			10	F		20		25	П		5 20 3	0	H							
Sisyrinchium angustifolium	Blue-eyed grass	native	0.20					5 5											П		\Box			\blacksquare	\blacksquare							
Solidago elongata Sonchus asper	Meadow Goldenrod Spiny sow thistle	native non-native	0.00																													
Symphyotrichum (Aster) hall Taraxacum officinale	Hall's Aster Common dandelion	native non-native	0.00					$-\mathbf{F}$	$+$ \Box	+	$+$ \mp	Ŧ	$+ \mathbb{T}$	-	H	H		HE	$+$ \mp	$+$ \square	Ŧ			$+$ \mp	+		H	##	+F	+	$+$ \blacksquare	
Trifolium dubium	Little hop clover	non-native	0.00								\blacksquare									#	\blacksquare							\blacksquare	\blacksquare			
Triteleia hyacinthina Typha latifolia	white brodiaea Common cattail	native	0.00 0.61										3	0								ᆂ										
Veronica peregrina var. xala Vicia americana	Hairy purslane speedewell American vetch	native native	0.10				5	$-\mathbf{F}$	H	-	$+$ \blacksquare		$+$ \blacksquare		HE	H		H	$+$ \mp	$+$ \blacksquare	H			$+$ \mathbb{F}			HE	$+ \Xi$	+F		$+\Box$	
Vicia hirsuta	Tiny vetch	non-native	0.00						\blacksquare							П			П	#				\blacksquare		#		Ħ	#			\blacksquare
Wyethia anqustifolia Ziqadenus venenosus	Narrowleaf Mule's Ear meadow deathcamas	native native	0.31							5								5														
Herbaceous Graminoid Sp	ecies-Absolute cover	9ft ² Plot					H		$+ \mathbb{F}$	+	$+$ \blacksquare		$+$ \blacksquare		HE	H		HE	H	+F	$+ \Box$		+	$+$ \blacksquare	+		H	ŦŦ	+F	+	$+$ \blacksquare	
Agrostis exarata	Spike bentgrass	native	0.82			20							10								\blacksquare				10							
Agrostis stolonifera	Colonial bentgrass	non-native	0.00	L			1								<u> </u>	1_1		<u> </u>	1_1				-				<u>ıl_</u>				1 1	

Attachment 1: Sample Plot Monitoring Data

Alopecurus aequalis	Short-awned foxtail	native	2.04	YES				20						1	15				10	10 2	0			5											10					5	5	$\overline{}$	
Alonecurus geniculatus	Water foxtail	native	0.00							-	_				_		_				_						_	_				-				_		$\overline{}$	-	_	_	-	\neg
Beckmania syzigachne	American sloughgrass	native	11.33	YES		30	10	20		25				30 3	30	30	40 2	25	40					15						30 3	30	\boldsymbol{T}		40	20	30)	30	20 :	30 1	0 15	5	
Bromus hordeaceus	Soft chess	non-native	0.00																													T	m	\neg			\neg	T			\neg	T	\neg
Carex densa	Dense sedge	native	5.41	YES					10		40	10	40				10													5	50	\boldsymbol{T}	20				20	20				45	
Carex feta	Green-sheath sedge	native	0.92							\top			$\overline{}$			\top				\neg						-		5		1	0	\boldsymbol{T}				1/)	$\boldsymbol{\top}$	-	$\neg \neg$	\top	15	\neg
Carex obnupta	Slough sedge	native	0.00																													\boldsymbol{T}						$\boldsymbol{\top}$					
Carex pachystachya	Chamisso Sedge	native	0.82							-					_			10	-				_	-	_		2	n		- 1	0	-		_	_			$\boldsymbol{\top}$	-		-	-	$\overline{}$
Carex scoparia	Pointed Broom Sedge	native	2.35	YES									20					10										15	15		_	-	20		10		- 5	10		\rightarrow	_	10	
Carex stipata	Saw-beaked sedge	native	0.41							-	_			_			_			_	$\overline{}$									- 1	0	-				_	Ť	+	-	$\overline{}$	$\overline{}$	10	\neg
Carex unilateralis	One-sided sedge	native	4.90	YES							20		10						15	_							2	5 5		2	20	-	20		60	10 20	10	10	-	_	_	15	-
Danthonia californica	CA oatgrass	native	0.00							_					_								_	-	_			_				-		_				+	-		-	_	$\overline{}$
Deschampsia caespitosa	Tufted hairgrass	native	7 14	YES									30		70																90	90						\boldsymbol{T}		\rightarrow	_	\boldsymbol{T}	70
Deschampsia elogata	Slender hairgrass	native	0.61	ILO						_	_	_	- 00	_	10			_	-	_		_	_	-			_	_		_	- 00	- 00		_		-	_	$\boldsymbol{ o}$	-	_	_		20
Echinochloa crus-galli	Large barnyard-grass	non-native	0.61				_		_	+	_	_		_	10	+		_	-	10							20	_			_	-		_		_	_	-	\vdash	$\boldsymbol{+}$	+	+-	20
Eleocharis acicularis	Needle spike-rush	native	0.00				_	_	_	_	_	_	_	_	_	-	_	_	-	10	_	_	_	-	_	_	20	_	_	_	_	+-	-	_	_	—	_	+	+	—	—	+	_
Eleocharis acicularis Eleocharis ovata	Ovoid spike-rush	native	0.00				_		_	-	_	_	-	_	_	-		_	\leftarrow	_	_	_		-	_	-	_	_	_	_	_	+-	-	_	_	_	_	-	30	15	—	—	-
Eleocharis ovata Eleocharis palustris	Creeping spike-rush		15.00	YES			_	_	_	_	_	_	_	40 1	E	40	50	_	25	70 6	0	_	_	-	_	100	_	_	_	70	_	+-	-	40	10	15	-	40	50	10	30 30	+	_
		native		155	_		_		_	+	_	_	-	40	10	+0	50	_	23	,, 0	0		_	\vdash	_	100	_	_	_	10	_	+-	\vdash	40	10	- 	_	40	-50		0 30	+	-
Glyceria borealis	Floating mannagrass	native	0.00							+		_	-			-	_	_	+	_	_	_	_				_	_	_		_	+-	\vdash			—	_	+	-	_	+	-	۳
Glyceria occidentalis	Western mannagrass	native			_		_		_	+	_	_	5	_	_	+	_	_	-	_	_		_	\vdash	_		_	_	_		_	10	\vdash	_	_	+	-	+	$\boldsymbol{\vdash}$	_	+	+	10
Hordeum brachyantherm	Meadow barley	native	0.51				_			+		_	3	_		-	_	_	\vdash	_		_		\vdash		-						10				_		\blacksquare	$\boldsymbol{-}$	_	-	-	10
Juncus acuminatus	Tapered rush	native	0.00		_	\vdash	_	_	_	+	_	_	-	_	_	-	_	_	\vdash	_	+	\vdash	_	\vdash	_	\vdash	_	-	-	_	_	—	\vdash	_	_	_	_	$oldsymbol{-}$	$\boldsymbol{-}$	-	+	+-'	ب
Juncus bolanderi	Bolander's rush	native	0.00				_			+		_		_		-	_	_	\vdash	_		_		\vdash		-						_				_		\blacksquare	$\boldsymbol{-}$	_	-	-	
Juncus bufonius	Toad rush	native	0.00				_			\bot	_			_	_	\perp						_			_	-	_			_		—'		_				$oldsymbol{\perp}$	\vdash	_	—	\bot	لے
Juncus effusus	Soft rush	native	1.22														- ;	30 20														4	10					4	-	_	_	4	للله
Juncus ensifolius	Dagger-leaved Rush	native	0.00				_			\bot	_			_	_	\perp					_	_			_	-	_			_		—'		_				$oldsymbol{\perp}$	\vdash	_	—	\bot	لے
Juncus oxymeris	Pointed rush	native	0.61																																		30	4	-			4	
Juncus tenuis	Slender rush	native	3.06	YES					45 5	\perp		15 30				\perp			\perp		30							5				ш'					20	ш					ل
Leersia oryzoides	Rice cutgrass	native	0.92																	20														10	15			+	-			4	
Lolium multiflorum	Annual rye grass	invasive	0.00																													ш'						╨	ш				لب
Luzula comosa	Woodrush	native	0.00																													_						4					
Panicum capillare	Common witchgrass	native	0.51																								20					ш'						╨	ш	5			لب
Poa trivialis	Rough-stalk bluegrass	non-native	0.00																																			4					
Poa annua	Annual bluegrass	non-native	0.00																																								
Scirpus microcarpus	small-fruit bulrush	native	0.00																																								
Scirpus pendulus	rufous bulrush	native	0.00																																								
Scirpus validus	softstem bulrush	native	0.00																																								
Vulpia myuros	Rattail fescue	non-native	0.00																																								
Bare Substrate (excluding	g vernal pool plots):	Mean =	0.77			VP	VP						VP	VP \	/P	VP	VP		VP '	VP V	P			VP		VP	VP			VP V	/P	T		VP	VP	VF	-	T	VP '	VP V	P VP	7	\neg
				Standard	0.61	0	10	0	0 0			0 0	0	0 1	0 10	0	0	0 0	0	10 0	0 0	0	0 0	10	0 0	0	20 0	0	0	0	0 0	0	0	0	0	0 0		0 0		0 1			40
Bare Substrate:		Mean =	1.63	Error =	0.61	U	10	U	0 0	U	U	0 0	U	0 1	10	U	U	0 0	U	10 0	, 0	0	0 0	10	0 0	U	20 0	, ,	0	0 1	0 0	0	U	U	U	0 0		/ 0 /	0	0 0) 0	0 1	10
Lower CI (80%)					0.85					1 1																						T^{-}				\neg		\Box	-	\neg	\neg	T	\neg
Upper CI (80%)					2.41																																	T					
				Standard	4.09	120	105	115	115 15	0 165	135 1	50 175	155	400 4	25 90	125	120 1	25 175	120	100 12	20 130	150 1	35 175	100 1	70 450	400	80 15	- 470	440	445 4	80 10	100	205	130	155 1	100 17	0 145	- 450	440	400 44	00 130	1275	400
% Native cover:		Mean =	134.08	Error =	4.09	120	105	115	115 15	0 165	135 1	50 1/5	155	130 1	25 90	125	120 1	25 1/5	120	100 12	20 130	150 1	35 1/5	100 1	70 155	100	80 15	5 1/0	140	115 1	80 10	100	205	130	155 1	:00 17	0 145	5 150	110 1	130 10	JU 130	1/5	100
Lower CI (80%)					128.84																											T						\mathbf{T}				T	
Upper CI (80%)					139.33					\top			T			\top				\neg						-		1				\boldsymbol{T}				\neg	1	$\boldsymbol{\top}$	-	$\neg \neg$	\top	au	\neg
оррег от (оо да)				Standard																												_						+		_		T	
% Total non-native cover	r :	Mean =	0.61	Error =	0.45	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	20 0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0 0	0 0	0	0
Lower CI (80%)		moun -	0.01	2.1.0.	0.03					-					_				-				_	-	_							-		_				$\boldsymbol{\top}$	-		-	-	$\overline{}$
Upper CI (80%)					1.19															_											_	-				_	_	+	-	_	_	-	-
Oppor 01 (00 /0)				Standard		-	_	_		1		_	_	_	_	_	_	_		_	-		_	_	_		_	_			_	_	H		_	_		-	-	-	-	-	\neg
% non-native invasive co	over-	Mean =	0.31	Error =	0.23	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	0 0	0	0	0	0 0	0	0	0	10	0 0	0	0	0	0 0) 0	0	0
Lower CI (80%)	JV61.	mean =	0.31	LIIOI -	0.02		_			+		_	1	_		+	_	_		_	_			-			_	_			+	_	\vdash	_		+		$\boldsymbol{+}$	-	_	+	-	$\boldsymbol{-}$
Upper CI (80%)		1			0.60				_	+	_	-	-	_	_	+	-	-	+	_	-	-	_		_	-	_	_	_	_	_	+-		_	_	—	_	+	-	-	+	-	-
	. 50	+			0.00		_		_	+	_	_	-	_	_	+	-+	_	-	+	-	-	_	\vdash	_	_	_	_	_	_	_	+-	\vdash	-	_	_	_	+	$\boldsymbol{\vdash}$	\rightarrow	+	-	س
Total # of native Species:							_			+	_	_		_		-	-	_	-	_		-		-						_	_	-	\vdash	_		_		+	+	_	-	-	
Total Number of Sample I					_	-	_	_	_	+	_	_	+	_	_	+	_	_	\vdash	_	+	_	_	\vdash	_	-	_	—	-	_	_	+-'	\vdash	_	_	—	+	$oldsymbol{}$	-	—	—	+	-
* denotes later monitoring	g date																																										

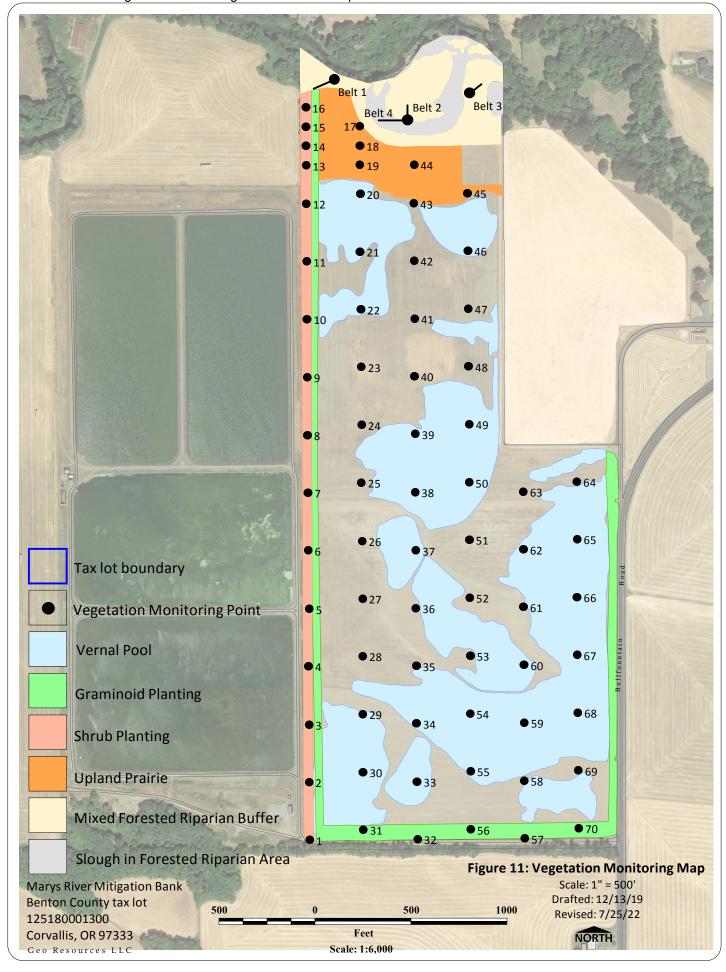
		Mar	ys River W	Vetland M	itiga	tion	Bank	(
		Scr	ub-Shrub	Habitat Cl	ass	Plot	Data									
				ay 21, 202				•								
Species Ob	served	100ft ² Plot	Avg. % Cover	Present in						Plot	s #'s					
Botanical Name	Common Name	Origin	ea. Species	10% of Plots	1	2	3*	4	5	6*	7*	8*	9*	10*	11	12
amelanchier alnifolia var.semiint	Service berry	native	0.83													10
Cornus sericea	Red osier dogwood	native	0.00													
Malus (pyrus) fusca	Pacific crabapple	native	4.17	Yes					10	15						25
Physocarpus capitatus	Pacific nine bark	native	0.83			10										
Populus trichocarpa	Black cottonwood	native	3.33										40			
Rosa nutkana	Nooka rose	native	6.67	Yes	35		5	15	5						10	10
Salix hookeriana	Hookers willow	native	16.67	Yes		20	50	30	20			30	40		10	
Salix scouleriana	Scoulers willow	native	6.25	Yes					10	10	20			35		
Salix sitchensis	Sitka willow	native	10.83	Yes						15	40			35	40	
Spiraea douglasii	Spirea	native	11.25	Yes	25	25	25	5	10	15		25				5
Total Cover			60.83													
Herbaceous Forb Species - A	bsolute cover	9ft ² Plot														
Achillea millefolium	Yarrow	native	0.00													
Alisma triviale	Northern water plantain	native	0.00													
Camassia quamash	Camas	native	0.00													
Centaurium erythraea	Centaury	non-native	0.00													
Clarkia amoena	Farewell-to-Spring	native	0.00													
Downingia elegans	Common downingia	native	0.00													
Epilobium ciliatum	Fringed willoweed	native	0.42						5							
Epilobium densiflorum	Dense spike-primrose	native	0.83							10						
Eriophyllum lanatum	Oregon sunshine	native	7.92	Yes		5	30								60	
Galium trifidum var. pacificum	Small bedstraw	native	0.42											5		
Geranium dissectum	Cutleaf geranium	non-native	0.42													5
Geum macrophyllum	Large leaf avens	native	3.75	Yes		5	40									
Gnaphalium palusre	Cudweed	native	0.00													
Gratiola ebracteata	Bractless hedgehyssop	native	0.00													
Hypochaeris radicata	Catsear dandelion	non-native	0.00													
Lotus unifoliolatus	Spanish clover	native	0.83			10										
Lupinus bicolor	two-colored lupine	native	0.00													
Lupinus polyphyllus	Bigleaf lupine	native	0.00													
Lythrum hyssopifolium	Hyssop loosestrife	non-native	0.00													
Lythrum portula	Spatulaleaf loosestrife	non-native	0.00													
Kickxia elatine	Sharp point flevellin	non-native	0.00													
Madia elegans	Showy Tarweed	native	0.00													
Madia glomerata	Cluster tarweed	native	0.00													
Mimulus guttatus	Common monkey-flower	native	0.00													
Navarretia intertexta	Navarretia	native	0.00													
Plagiobothrys figuratus	Fragrant popcorn flower	native	0.00													
Poenilla gracilis	Northwest cinqufoil	native	2.92	Yes		10	10			15						
Polygonum amphibium	Water smartweed	native	0.00													
Prunella vulgaris	Common selfheal	native	20.00	Yes		15	5		75	70				40	15	20

Attachment 1: Sample Plot Monitoring Data

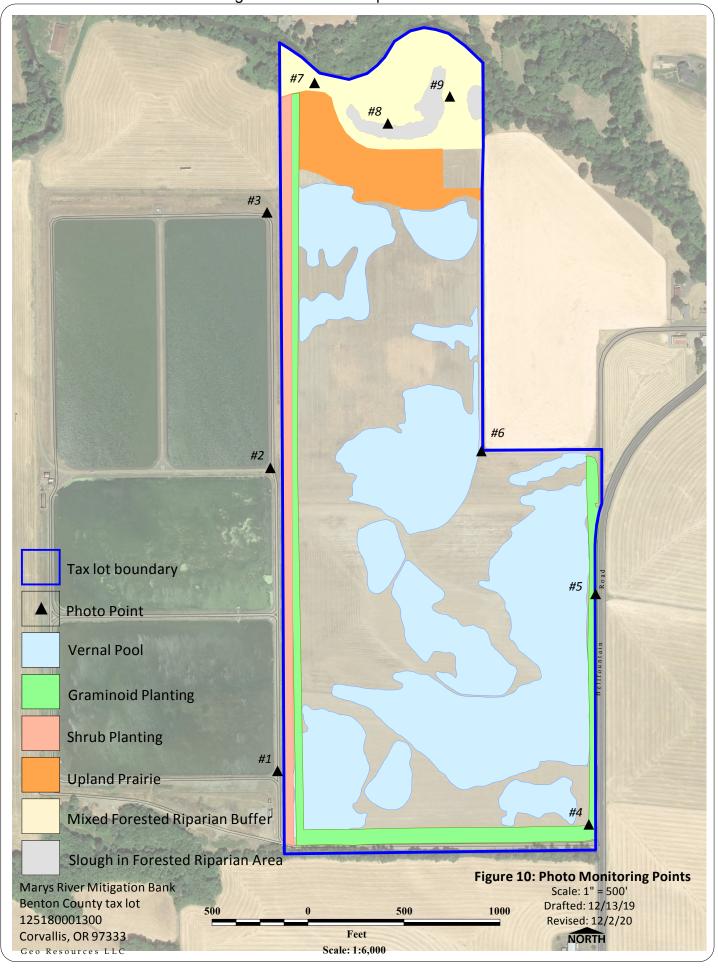
Rorippa curvisiliqua	Western yellowcress	native	0.00													
Sidalcea campestris	Meadow checkermallow	native	0.00													
Veronica peregrina var. xalapens		native	0.00													
Vicia hirsuta	Tiny vetch	non-native	0.00													
viola illioata	Tilly Votoli	Horr Hativo	0.00													
Herbaceous Graminoid Species	s - Ahsolute cover	9ft ² Plot														
Agrostis exarata	Spike bentgrass	native	15.00	Yes	10	30	20		15	10	10			40	25	20
Agrostis stolonifera	Colonial bentgrass	non-native	0.00	100	.0						. 0					
Alopecurus aequalis	Short-awned foxtail	native	5.83	Yes				60			10					
Beckmania syzigachne	American sloughgrass	native	4.17	Yes				10				10	30			
Carex obnupta	Slough sedge	native	0.00	100												
Carex unilateralis	One-sided sedge	native	2.50										30			
Danthonia californica	CA oatgrass	native	4.58	Yes				30		5	10	10				
Deschampsia caespitosa	Tufted hairgrass	native	19.58	Yes	45			30		_	60	70	30			
Deschampsia danthonioides	Annual hairgrass	native	0.00													
Deschampsia elongata	Slender hairgrass	native	4.17	Yes		20									10	20
Eleocharis ovata	Ovoid spike rush	native	0.00													
Eleocharis palustris	Creeping spike-rush	native	0.00													
Glyceria occidentalis	Western mannagrass	native	0.00													
Hordeum brachyantherm	Meadow barley	native	5.42	Yes	45											20
Juncus bufonius	Toad rush	native	0.00													
Juncus tenuis	Slender rush	native	2.50	Yes		15				15						
Lolium multiflorum	Annual rye grass	invasive	0.00													
Panicum capillare	Common witchgrass	native	0.00													
Poa annua	Annual bluegrass	non-native	0.00													
Poa trivialis	Rough-stalk bluegrass	non-native	2.08						10	5						10
Vulpia myuros	Rattail fescue	non-native	0.00													
Bare Substrate:	Mean =	6.67	Standard Error =	2.2	0	0	20	0	0	10	10	10	10	20	0	0
Lower CI (80%)				3.79												
Upper CI (80%)				9.55												
% Native herbaceous cover :	Mean =	100.83	Standard Error	4.5	100	110	105	130	95	125	90	90	90	85	110	80
Lower CI (80%)				95.04												
Upper CI (80%)				106.62												
% Total non-native cover :	Mean =	2.50	Standard Error	1.4	0	0	0	0	10	5	0	0	0	0	0	15
Lower CI (80%)				0.65												
Upper CI (80%)				4.35												
			Standard Error		_		0	0	_	_	_	_	_		_	
% non-native invasive cover:	Mean =	0.00	=	0.0	0	0	0	0	0	0	0	0	0	0	0	0
Lower CI (80%)				0.00												
Upper CI (80%)				0.00												
Total # of native Species: 26																
Total Number of Sample Plots:	12															
*Bareground due to: Structure																

		Mary	s River W	etland Mit	igatio	n Bar	ık									
	Mix			arian Habi				ata								
				d *July 26		_	t 4)	1						ı		
Species (Botanical Name	Observed Common Name	Origin	Avg. % Cover ea. Species	Present in 10% of Plots	1	Belt 1	3	4	Belt 2	6**	7	Belt 3	9**	10	*Belt 4	12*
Acer macrophyllum	Bigleaf maple	native	35.83	Yes	60	50	60		70	50	60	20	40	20		Ī
amelanchier alnifolia var.sem Baccharis pilularis	Service berry Coyote bush	native native	0.00													
Cornus sericea	Red osier dogwood	native	0.00													
Fraxinus latifolia	Oregon ash	native	26.67 0.00	Yes				50					10	70	100	90
Mahonia aquifolium Malus (pyrus) fusca	Oregon Grape Pacific crabapple	native native	0.00													
Oemleria cerasiformis	Indian plum	native	0.00													
Physocarpus capitatus Ribes sanguineum	Pacific nine bark Red flowering currant	native native	0.00 2.92	Yes	20	15										
Rosa nutkana	Cluster rose	native	1.67										20			
Rubus discolor Rubus ursinus	Himalayan blackberry Trailing blackberry	invasive native	0.00													
Salix scouleriana	Scoulers willow	native	0.00													
Sambucus caerulea Spiraea douglasii	Blue elderberry Douglas spirea	native native	0.00													
Symphoricarpos albus	Snow berry	native	7.92	Yes	20		20		15	40						
Total Cover			75.00													
Herbaceous Forb Species -	- Absolute cover	9ft ² Plot														
Achillea millefolium	Yarrow	native	1.25			15		45								
Angelica genuflexa Amsinckia menziesii	kneeling angelica Common Fiddleneck	native native	1.25 0.00					15								
Aquilegia formosa	Western Red Columbine	native	0.83							10						
Bidens cernua Camassia leichtlinii	Nodding beggarticks Great Camas (tall)	native native	5.83 1.25	Yes Yes		5	5	5						50		20
Cardamine nuttalli	Nuttall's toothwort	native	1.25	Yes		3	9	3	5	10						
Centuarium erythraea	European centuary	non-native	0.00													
Cerastium fontanum Clarkia amoena	Mouse-ear chickweed Farewell-to-Spring	non-native native	0.00													
Clarkia purpurea ssp quadrivu	Small-flowered Godeti	native	0.00													
Collinsia grandiflora Collomia grandiflora	Large-flowered Blue-eyed Ma Large-flowered Collomia	native native	4.17 0.00			50										
Delphinium trolliifolum	Poison Larkspur	native	11.67	Yes					60		80					
Epilobium angustifolium Epilobium ciliatum	Fireweed Fringed willoweed	native native	0.83 2.50	Yes				10		10						
Eriophyllum lanatum	Oregon sunshine	native	0.83	res		10		10		20						
Galium aparine	Catchweed	native	6.25	Yes	5		10	10	10	10	20		10			
Galium trifidum var. pacificum Geranium dissectum	Small bedstraw Cutleaf geranium	native non-native	0.00									10				
Geum macrophyllum	Large-leaves Avens	native	0.00													
Gilia capitata Hydrophyllum occidentale	Bluefield gilia Western waterleaf	native native	7.50	Yes										30		60
Lapsana communis	Nipplewort	non-native	3.75	103		15		10	10					10		00
Ligusticum apiifolium Lomatium nudicaule	Celeryleaf-Licoriceroot	native	9.58 1.67	Yes	40	10	30	20					15 20			
Lomatium triternatum	Bare-stem Lomatium Spring gold	native native	0.00										20			
Lotus purshianus	Spanish clover	native	0.00													
Lupinus albicaulis Lupinus polyphyllus	Sickle-keeled Lupine Large-leaf Lupine	native native	0.00													
Madia gracilis	Grassy tarweed	native	0.00													
Marah oregana osmorhiza occidentalis	Wild cucumber western sweetroot	native native	0.00 4.58	Yes	15			10				30				
Perideridia oregana	Oregon Yampah	native	0.00	103	10			10				00				
Phacelia heterophylla	Varileaf phacelia	native	0.00													
Phacelia linearis Plagiobothrys nothofulvus	threadlike phacelia Rusty Popcorn Flower	native native	0.00													
Potentilla glandulosa	Sticky Cinquefoil	native	0.83					10								
Potentilla gracilis Prunella vulgaris var lanceola	Slender Cinquefoil Common selfheal	native native	0.00 4.17									50				
Ranunculus occidentalis	Western buttercup	native	0.00									- 00				
Ranunculus orthorhyncus	Straightbeak buttercup	native	0.00 1.67					20								
Rumex occidentalis Rumex salicifolius	Western dock Willow Dock	native native	0.00					20								
Sidalcea malviflora ssp. virga	Rose Checkermallow Nelson's checkermallow	native	2.92	Yes	10	5 15	10	30				20	25			
Sidalcea nelsonii Sisyrinchium idahoense	Blue-eyed grass	native native	10.00 0.83	Yes	10	15	30	30				10	35			
Tellima grandiflora	Fringe cup	native	1.67	Yes	10			10								
Viola glabella Viola praemorsa	stream violet Prairie Violet	native native	0.00													
Herbaceous Graminoid Spe		9ft ² Plot native	0.00													
Agrostis exarata Bromus sitchensis	Spike bentgrass Alaska brome	native	0.00			10										
Carex deweyana	dewey sedge	native	0.00													
Danthonia californica Deschampsia caespitosa	CA oatgrass Tufted hairgrass	native native	0.00													
Deschampsia elongata	Slender hairgrass	native	0.00													
Elymus glaucus Festuca idahoensis ssp. Roei	Blue wildrye Roemer's fescue	native native	4.17 5.83	Yes Yes	10 40	15	40 15									
Juncus bufonius	Toad rush	native	0.00	1 03	70		10									
Lolium multiflorum	Annual rye grass	invasive	0.00													
Poa annua Vulpia myuros	Annual bluegrass Rattail fescue	non-native	0.00													
Bare Substrate overall: Bare Substrate(excluding care	anopy cover/inundation).	Mean = Mean =	16.25 2.22		0	0	0	0	20 0	20 0	0	0	20 0	15 0	100	20
% Native cover:		Mean =	169.17		230	200	220	190	160	150	160	130	150	170	100	170
% non-native cover : % non-native invasive cove	r.	Mean =	4.58 0.00		0	15 0	0	10	10	0	0	10	0	10	0	0
Total # of native Species: 3		wiedii =	0.00		U	J	- 0	U	0	J	U	U	J		J	U
Total Number of Sample Plo * Bareground due to: Organ																-

	Upland B		bitat Class	s Pl	ot D	ata						
			21, 2024									
Species (Avg. % Cover					Plot #'				
Botanical Name amelanchier alnifolia var.sen	Common Name Service berry	Origin native	ea. Species 2.50	13	14	15*	16	17	18	19	44	45
Baccharis pilularis	Coyote bush	native	7.50	-10		30						
Cornus sericea	Red osier dogwood	native	0.00									
Mahonia aquifolium	Oregon Grape	native	3.75			15	45					
Malus (pyrus) fusca Oemleria cerasiformis	Pacific crabapple Indian plum	native native	3.75 0.00				15					
Physocarpus capitatus	Pacific nine bark	native	0.00									
Ribes sanguineum	Red flowering currant	native	2.50		10							
Rosa nutkana	Nooka rose	native	32.50	40	40	45	5					
Sambucus caerulea Spiraea douglasii	Blue elderberry Douglas spirea	native native	0.00									
Symphoricarpos albus	Snow berry	native	8.75				35					
Total Cover	,		61.25									
Herbaceous Forb Species	- Absolute cover	9 ft ² Plot										
Achillea millefolium	Yarrow	native	2.22								20	
Amsinckia menziesii	Common Fiddleneck	native	1.11						10			
Aquilegia formosa	Western Red Columbine	native	0.00									
Camassia leichtlinii	Great Camas (tall)	native	0.00									
Centuarium erythraea Cerastium fontanum	European centuary Mouse-ear chickweed	non-native	0.00									
Clarkia amoena	Farewell-to-Spring	native	1.11						10			
Clarkia purpurea ssp quadriv	Small-flowered Godeti	native	0.00									
Collinsia grandiflora	Large-flowered Blue-eyed		0.56						5			
Collomia grandiflora Eriophyllum lanatum	Large-flowered Collomia Oregon sunshine	native native	0.00 9.44	25			15				10	35
Galium trifidum var. pacificum		native	1.11	20			13	10			10	- 00
Geranium dissectum	Cutleaf geranium	non-native	1.11								10	
Geum macrophyllum	Large-leaves Avens	native	0.00									
Gilia capitata	Bluefield gilia	native	0.00									
Gnaphalium palustre Kickxia elatine	Cudweed Sharp-point fluellin	native non-native	0.00 1.11						10			
Ligusticum apiifolium	Celeryleaf-Licoriceroot	native	0.00						10			
Lomatium nudicaule	Bare-stem Lomatium	native	0.00									
Lomatium triternatum	Spring gold	native	0.56									5
Lotus purshianus	Spanish clover	native	0.00							45		
Lupinus albicaulis Lupinus bicolor	Sickle-keeled Lupine Two-colored lupine	native native	7.22 0.00					50		15		
Lupinus polyphyllus	Large-leaf Lupine	native	0.00									
Madia gracilis	Grassy tarweed	native	5.56					10		30		10
Madia sativa	Coast tarweed	native	6.67								20	40
Microseris laciniata Plectritis congesta	cutleaf silverpuffs Rosy Plectritis	native native	2.22 0.56					10				10 5
Phacelia heterophylla	Varileaf phacelia	native	0.00									5
Plagiobothrys nothofulvus	Rusty Popcorn Flower	native	0.00									
Polygonum aviculare	Common Knotweed	non-native	0.00									
Potentilla glandulosa	Sticky Cinquefoil	native	1.11				40		10			
Potentilla gracilis Prunella vulgaris var lanceola	Slender Cinquefoil	native native	1.11 6.67	30			10 30					
Ranunculus occidentalis	Western buttercup	native	12.78	- 00			- 00	10	30	15	50	10
Ranunculus orthorhyncus	Straightbeak buttercup	native	0.00									
Rumex salicifolius	Willow Dock	native	0.00									
Sanguisorba annua (occiden Sidalcea malviflora ssp. virga		native native	0.00 8.33						15	40	10	10
Sisyrinchium idahoense	Blue-eyed grass	native	0.00						13	40	10	10
Veronica peregrina var. xala			0.00									
Vicia sativa	Common vetch	non-native	1.11					10				
Viola praemorsa	Prairie Violet	native	0.00									
Herbaceous Graminoid Sp	ecies - Absolute cover	9 ft ² Plot										
Agrostis exarata	Spike bentgrass	native	3.33	20	10							
Alopecurus aequalis	Short-awned foxtail	native	0.00									
Beckmania syzigachne	American sloughgrass	native	0.00									
Carex unilateralis Danthonia californica	One-sided sedge CA oatgrass	native native	0.00									
Deschampsia caespitosa	Tufted hairgrass	native	0.00									
Deschampsia danthonioides	Annual hairgrass	native	0.00									
Deschampsia elongata	Slender hairgrass	native	12.22	20	40	30	20					
Eleocharis ovata Eleocharis palustris	Ovoid spike rush Creeping spike-rush	native native	0.00									
Festuca idahoensis ssp. Roe		native	27.78	15	40		45	40	50	30		30
Glyceria occidentalis	Western mannagrass	native	0.00									
Hordeum brachyantherm	Meadow barley	native	0.00									
Juncus bufonius	Toad rush	native	0.00									
Juncus tenuis Lolium multiflorum	Slender rush Annual rye grass	native invasive	0.00									
Panicum capillare	Common witchgrass	native	0.00									
Poa annua	Annual bluegrass	non-native	0.00									
Vulpia myuros	Rattail fescue	non-native	0.00									
Bare Substrate:		Mean =	0.00									
% Native cover:		Mean =	138.89	160	140	120	175	130	130	130	110	155
% Total non-native cover :		Mean =	3.33	0	0	0	0	10	10	0	10	0
% non-native invasive cov		Mean =	0.00	0	0	0	0	0	0	0	0	0
Total # of native Species: 3	27											
Total Number of Sample PI	ata. O											



Attachment 3: Photo Monitoring Point Location Map



Marys River Mitigation Bank 2024 Monitoring Photos





