

BEFORE THE METRO COUNCIL

FOR THE PURPOSE OF APPROVING THE	)	RESOLUTION NO. 23-5341
SMITH AND BYBEE WETLANDS NATURAL	)	
AREA INTERIM PLAN	)	Introduced by Chief Operating Officer
	)	Marissa Madrigal in concurrence with
	)	Council President Lynn Peterson

WHEREAS, Smith and Bybee Wetlands Natural Area provides essential habitat for rare plants and a diversity of wildlife, as well as critical off-channel refugia to listed state and federal endangered fish species; and

WHEREAS, Metro’s St. Johns Landfill (also referred to as the St. Johns Prairie) is included in the Smith and Bybee Wetlands Natural Area, providing important upland prairie habitat supporting rare birds, mammals, reptiles, butterflies, and plants; and

WHEREAS, since 1990, the greater Smith and Bybee Wetlands area has been restored and managed pursuant to adopted vision statements and management plans with the assistance of the Smith and Bybee Wetlands Advisory Committee; and

WHEREAS, in 2013 the original 1990 Natural Resource Management Plan transitioned into the Smith and Bybee Wetlands Comprehensive Natural Resource Plan (CNRP) as the guiding plan for the area; and

WHEREAS, the CNRP was adopted as a conditional use master plan approved by the City of Portland involving multiple property owners obtaining pre-approvals of land use actions for a 10-year period; and

WHEREAS, the CNRP expires on June 17, 2023; and

WHEREAS, to prevent a gap in management guidance, Metro, with the assistance of the Smith and Bybee Wetlands Advisory Committee, created the 2023 Smith and Bybee Wetlands Natural Area Interim Plan (Interim Plan) to take the place of the CNRP; and

WHEREAS, the Interim Plan updates the CNRP, continues the same vision and goals for the natural area, and will guide Metro’s actions to protect, enhance, and restore the natural area, as well as support and manage access to nature on land Metro owns and manages; and

WHEREAS, the Interim Plan will remain in effect until Metro undertakes a formal master planning process; now therefore,

BE IT RESOLVED that the Metro Council approves the Smith and Bybee Wetlands Natural Area Interim Plan.

ADOPTED by the Metro Council this 15th day of June, 2023.



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Lynn Peterson, Council President

Approved as to Form:



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Carrie MacLaren, Metro Attorney

IN CONSIDERATION OF RESOLUTION NO. 23-5341, FOR THE PURPOSE OF  
APPROVING THE SMITH AND BYBEE WETLANDS NATURAL AREA INTERIM PLAN

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Date: May 25, 2023  
Department: Parks and Nature  
Meeting Date: June 15, 2023

Prepared by: Andrea Berkley, Gary  
Shepherd  
Presenters: Dan Moeller, Andrea Berkley  
Length: 20 minutes

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**ISSUE STATEMENT**

Since 2013, the Smith and Bybee Wetlands Comprehensive Natural Resource Plan (CNRP) has served as the guiding management plan for the natural area. The CNRP was adopted as a conditional use master plan approved by the City of Portland, involving multiple property owners obtaining pre-approvals of land use actions for a 10-year period. The CNRP expires on June 17, 2023. To prevent a gap in management guidance, Metro, with the assistance of the Smith and Bybee Wetlands Advisory Committee (SBWAC), created the 2023 Smith and Bybee Wetlands Natural Area Interim Plan (Interim Plan) to take the place of the CNRP. The Interim Plan makes minor updates to the CNRP, continues the same vision and goals for the natural area, and will guide Metro's actions to protect, enhance, and restore the natural area and provide access to nature for local communities. The Interim Plan will remain in effect until Metro undertakes a formal master planning process for the natural area. The Interim Plan is presented for Council consideration.

**ACTION REQUESTED**

Staff requests that Council approve the Smith and Bybee Wetlands Natural Area Interim Plan.

**IDENTIFIED POLICY OUTCOMES**

Management of the Smith and Bybee Wetlands Natural Area has been guided by formally adopted plans since 1990. Approving the Interim Plan will reflect Council's desire to continue management guidance protecting, enhancing, and restoring the nature area while providing access to nature for local communities.

**POLICY QUESTION(S)**

Does Council support an interim plan to continue the goals and objectives of the CNRP as they relate to managing fish and wildlife, water quality, and access to nature at Smith and Bybee Wetlands Natural Area, until such time that a formal master planning process can be completed?

## **POLICY OPTIONS FOR COUNCIL TO CONSIDER**

In advance of the CNRP expiring, Metro staff worked with the SBWAC to identify and evaluate options for replacement.

The four options explored were:

1. Creating an updated CNRP and submitting a land use application to the City of Portland for master plan conditional use review and adoption.
2. Allowing the CNRP to expire without a replacement plan in place.
3. Creating a Metro Site Conservation Plan and/or Master Plan prior to CNRP expiration.
4. Interim Plan (“hybrid option”): Metro Council adopting the current CNRP with minor updates and adjustments. After adoption, Metro and Advisory Committee would work together to determine when Metro can start a planning process to create a Master Plan and Site Conservation Plan in partnership with the Advisory Committee and other community members and stakeholders.

Each option was evaluated based on its impact, if any, to:

- the existing natural area management goals and objectives
- parcels within the CNRP management zone
- public involvement in management decisions at the natural area
- land use and project review of future development projects in the natural area
- the Smith and Bybee Fund
- existing rules around dogs in the natural area
- implementation costs

Please see attached Management Alternatives Table, Jan 2022, for a detailed discussion of each alternative.

## **STAFF RECOMMENDATIONS**

Staff recommends approval of the Smith and Bybee Wetlands Natural Area Interim Plan.

## **STRATEGIC CONTEXT & FRAMING COUNCIL DISCUSSION**

Since 1990, the greater Smith and Bybee Lakes Wetlands area has been restored and managed pursuant to adopted vision statements and management plans with the assistance of the SBWAC, a committee created to ensure local government and community interest representation. In 2013, the original 1990 Natural Resource Management Plan was replaced by the Smith and Bybee Wetlands CNRP as the guiding plan for the area.

The CNRP contains policy statements that have been revised in the Interim Plan. Minor updates and changes necessary to clarify management authority were made. Upon expiration of the CNRP and adoption of the Interim Plan, the following changes will go into effect:

- Metro management authority (Policy 2, Policy 14) will change from lands included in the CNRP owned by 8 different landowners and totaling 1,959 acres to lands

owned by Metro or managed by Metro under a management agreement. This is currently 1,543 acres. An additional 129 acres of City of Portland-owned land is expected to be under a management agreement by the end of 2023.

- The CNRP was approved as a master plan through a Type III Land-Use Review by the City of Portland Hearings Officer. It was intended to be used by the City of Portland Bureau of Development Services to review proposed actions within the natural area and potentially reduce permitting requirements. Upon CNRP expiration, Metro will be subject to the base zoning for access or infrastructure projects.
- Management responsibilities of Metro will not change (Policy 4). However, language was added to acknowledge Metro's responsibility to "Operate and maintain the closed St. Johns Landfill in compliance with regulatory requirements." Clarifying language was added to a policy statement regarding management of St. Johns Landfill (Policy 10).
- In Policy 16, the CNRP's prohibition of new, untreated stormwater entering the natural area is removed. Regulations regarding stormwater are overseen by the City of Portland and Department of Environmental Quality.

No change will occur to the management goals and objectives for conservation, restoration, or access to nature at Smith and Bybee Wetlands Natural Area. No changes will occur to the regional context of SBWNA (Policy 1). No change will occur to use of the Smith and Bybee Fund (Policy 3) or review of the fund budgeting by SBWAC. Representation on and roles of the SBWAC will not change (Policy 5). Policies related to biodiversity (Policy 7), adaptive management (Policy 6), adjacent land purchase (Policy 8), monitoring (Policy 9), management for conservation (Policy 13), mitigation (Policy 15), infrastructure maintenance (Policy 17) and climate change (Policy 6) will not change. Minor clarifying updates were made to policies regarding trails and dogs (Policy 12) and access projects (Policy 11).

## **BACKGROUND**

Staff discussed options for maintaining a plan to guide management of the natural area with the SBWAC. The SBWAC advises Metro on management of the natural area and has provided guidance, partnership, and assistance in implementing the CNRP. The SBWAC is comprised of representatives from North Portland Neighbors, the City of Portland, Port of Portland, Columbia Slough Watershed Council, Friends of Smith and Bybee, and others. The SBWAC assisted in developing the Interim Plan and endorses the adoption of the Interim Plan as the preferred course of action upon expiration of the CNRP.

The plan will provide guidance to staff on management goals and priorities, thereby guiding spending of Natural Area Levy dollars for habitat restoration and spending of the Smith and Bybee Fund, a dedicated endowment fund for development and management of the Smith and Bybee Wetlands Natural Area.

Having a plan in place to guide management of the natural area is important for several reasons. The plan goals and objectives guide decision making and budgeting. In addition,

section 3.3.6 of the Regional Framework Plan directs Metro to “[i]nsure that public use is compatible with natural and cultural resource protection for components of the Regional System by creating Master/Management plans that strive to achieve that objective prior to formal public use.”

The CNRP was developed with public input and implementation has been overseen by the SBWAC, comprised of community groups and local governments.

Community engagement for this project was achieved through engagement with the SBWAC. This level of community engagement was suitable given the minor scope of changes being made to the CNRP. A formal master planning process will include a broader and more rigorous community engagement effort.

#### **ATTACHMENTS**

- Letter from Smith and Bybee Wetlands Advisory Committee endorsing the Interim Plan as a replacement for the CNRP
- Management Alternatives Table, Jan 2022, describing options for management guidance for SBWNA after expiration of the CNRP
- 2023 Smith and Bybee Wetlands Interim Plan (Interim Plan), clean copy

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## Smith and Bybee Advisory Committee

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Coordinated by:  
**Metro**  
**600 NE Grand Ave.**  
**Portland, OR 97232**

March 31, 2022

Jon Blasher, Director, Parks and Nature  
Metro Regional Center  
600 NE Grand Ave.  
Portland, Oregon 97232-2736

RE: Expiration of Smith and Bybee Wetlands Natural Area's Comprehensive Natural Resource Management Plan in June 2023 – SBAC's preference for replacement

Dear Mr. Blasher,

Considering the imminent expiration of the Smith and Bybee Wetlands Natural Area Comprehensive Natural Resource Management Plan in June 2023, the Smith and Bybee Advisory Committee (Advisory Committee) wishes to express our support to Metro for the Hybrid Model management alternative for Smith and Bybee Wetlands Natural Area. Our understanding of this alternative is that the existing CNRP, with minor necessary modifications while maintaining management goals and objectives, would be adopted as a council-approved Metro Master Plan. It is also understood that Metro will work with the Advisory Committee to begin developing next steps for conservation. For context, please see the attached Smith and Bybee Wetlands Natural Area – Management Alternatives.

The Advisory Committee was established in the original Natural Resource Management Plan (1990) for Smith and Bybee Wetlands Natural Area and carried over to the CNRP in 2013. The committee is made up of community members interested in preserving and enhancing the ecological health of the natural area and ensuring the allowed recreation is compatible with this valuable habitat. With that in mind, the Advisory Committee looks forward to partnering with Metro to develop a new Master Plan based on the framework of the CNRP. Over the coming year, as the new Master Plan is developed, the Advisory Committee may endeavor to engage Metro in further discussions around issues directly related to the preservation and ecological health of the natural area. Some issues of concern that must be addressed in the new Master Plan include the Trust Fund balance, the negative impact of dogs in the natural area, and the degradation of habitat from intense human use.

Thank you for keeping the Advisory Committee informed and for presenting a practical solution to the sunseting of the CNRP. We look forward to hearing further guidance from Metro Council.

Sincerely,

*Carrie Butler*

Carrie Butler, Chair  
Smith and Bybee Advisory Committee

Attachment: Smith and Bybee Wetlands Natural Area – Management Alternatives, January 12, 2022

## Smith and Bybee Wetland Natural Area - Management Alternatives

### Jan 12, 2022 Draft

Note: This document was co-produced by Emily Roth and Metro staff for the purpose of stimulating discussing between Metro and the Smith and Bybee Advisory Committee about possible management paths for the future. Ms. Roth provided an initial draft, but did not review the final document.

Policies/Projects/Descriptions	Comprehensive Natural Resource Plan (CNRP)	Base Zoning: Open Space (OS) with Environmental Protection (p) or Environmental Conservation (c), and Aircraft Landing (h)	Metro Site Conservation / Stewardship Plan and Master Plan	Hybrid Model: Convert existing CNRP to Council Approved Metro "Master Plan"
Definition/explanation	Initially the work of the City of Portland and Port of Portland and identified as a Natural Resource Management Plan (1990), and upon expiration, transitioned to the existing CNRP, which was developed and processed by Metro and other property owners within the natural area, with the Advisory Committee, members of the public and stakeholders. Approved as a master plan through a Type III Land-Use Review by the City of Portland Hearings Officer. Used by the City of Portland Bureau of Development Services to review proposed actions within the natural area as shown in the plan. The CNRP (LU 12-167334 CN) is due to expire on June 17, 2023, ten years after it was approved. If not renewed, projects will be reviewed per base zoning.	Zoning assigned to the area by the City of Portland Bureau of Planning will be used by the City of Portland Bureau of Development Services to review proposed projects in the natural area. Smith and Bybee Wetlands NA is zoned Open Space with overlays of Environmental Protection (highest level of protection) or Environmental Conservation (more uses allowed with mitigation), and Aircraft Landing Zone (h). Level of review for individual projects is detailed in the zoning code, Type I (allowed or has minimum requirements; least amount of review), Type II - reviewed and approved at the staff level, Type III - approved by the Hearings Officer and Type IV - final approval by Portland City Council.  Restoration projects do not require permits from Portland.	Developed by Metro Parks and Nature in collaboration with other Metro departments such as WPES with public input including the Advisory Committee. The plans clearly state the goals, objectives and planned actions for the site ranging from natural resource management, trail development, environmental education and other site features. They do not contain implementation plans of design details. Metro uses both as a guiding documents.  Master Plans typically are Council approved, SCPs not, but there is no reason an SCP could not go to Council.  For all projects requiring permits within the natural area, the City of Portland will review them based on the base zoning and overlays.	Metro Council formally adopts the current CNRP with minor adjustments to fit our framework, ownership and management authority. Keeps existing CNRP as land management guiding document, but under Metro's jurisdictional umbrella, rather than the City of Portland's. Portland base zoning applies for permitting. After adoption, Metro and Advisory Committee work together to determine when Metro can start a planning process to create a Master Plan and Site Conservation Plan in partnership with the Advisory Committee and other community members and stakeholders. In the interim period Metro will work with Advisory Committee to begin developing next steps for conservation.
Management Goals and Objectives	Clearly articulated in the plan - for the ecology, recreation, access and coordination	Zoning code contains review criteria for protection and conservation of resources for trail and structure development.	Ecology and limited recreation are clearly articulated in Site Conservation Plans, with recreation covered in more detail in Master Plans. There can be detailed maps showing proposed trails and projects in either, but design details are usually not included.  Zoning code contains review criteria for protection and conservation of resources for trail and structure development.	Same as for CNRP with shift to SCP + Master Plan over time  Zoning code contains review criteria for protection and conservation of resources for trail and structure development.
Dogs	Not allowed in current CNRP. City of Portland is an enforcement authority in the current management structure.	City of Portland does not regulate dogs through its Code. This decision is made by the managing entity.	Metro Title 10 rules give Council and Metro management discretion, including the decision on dogs on Metro property and Regional Trails.	Same as for CNRP (dogs not allowed) with shift to Metro Council making final decision.



## Smith and Bybee Wetland Natural Area - Management Alternatives

### Jan 12, 2022 Draft

Note: This document was co-produced by Emily Roth and Metro staff for the purpose of stimulating discussing between Metro and the Smith and Bybee Advisory Committee about possible management paths for the future. Ms. Roth provided an initial draft, but did not review the final document.

Policies/Projects/Descriptions	Comprehensive Natural Resource Plan (CNRP)	Base Zoning: Open Space (OS) with Environmental Protection (p) or Environmental Conservation (c), and Aircraft Landing (h)	Metro Site Conservation / Stewardship Plan and Master Plan	Hybrid Model: Convert existing CNRP to Council Approved Metro "Master Plan"
	The Metro Council is unlikely to approve submitting another CNRP to Portland that is inconsistent with Metro Title 10 rules that give Council and Metro management discretion, including the decision on dogs on Metro property and Regional Trails.		Metro Title 10 policy currently allows dogs on leash on regional trails. Current plan is for a regional trail on the St. Johns Prairie, crossing the Slough and continuing on through City of Portland managed land. Issue only becomes relevant when the Regional Trail is completed. Very unlikely to occur within 5 years.	
Multiple Property Owners	CNRP applies to multiple property owners, including City of Portland, Port of Portland, and private land owners who consented to the master plan application. Public agencies manage property held in fee and/or properties over which management easements or other agreements have been executed.	Zoning is for all properties.	The plan would detail the coordination requirements, as well as the methods to be used.  Public agencies manage property held in fee and/or properties over which management easements or other agreements have been executed.	CNRP applies to multiple property owners, including City of Portland, Port of Portland, and private land owners who consented to the master plan application. Public agencies manage property held in fee and/or properties over which management easements or other agreements have been executed. Any new Master Plan or SCP would only apply to Metro properties on those lands covered by an Inter-Governmental Agreement.
Funding/Trust Fund	The Smith and Bybee Lakes Trust Fund was created through the City's 1990 Natural Resource Management Plan with funds already collected and reserved to implement the St. Johns Landfill End Use Plan. Under the CNRP, Metro is the Fund's fiscal agent, with Advisory Committee providing advice. Additional funding comes from Metro as budgeted and available.  Restrictions on the use of the fund are found in the 1990 NRMP. Not currently aware of limits on spending that are relevant to our choices (research action item).  Expect to end FY22 with fund balance = \$1,500,000.	Not applicable.	Metro cannot make any commitments to maintaining a positive Fund balance.  Most likely the Fund would be spent down over 5-10 years to cover some of cost of managing the natural area. Metro would continue leveraging the fund to achieve goals of the plan.	Trust Fund would continue to operate as provided for in CNRP.  As with all the alternatives, Metro cannot make any commitments to maintaining a positive Fund balance. However, Metro can commit to a conversation about what the next 10 years of restoration and management should look like and how to pay for those activities.  No other Metro site has a committed fund for its management.

## Smith and Bybee Wetland Natural Area - Management Alternatives

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	<p>Metro cannot make any commitments to maintaining a positive Fund balance.</p> <p>Most likely the Fund would be spent down over 5-10 years to cover some of the cost of managing the natural area.</p>			
Public Involvement	<p>Smith and Bybee Wetlands NA Advisory Committee continues to provide guidance on the management, including the budget priorities and expenditures. Metro would continue to do public involvement for specific projects and is committed to an approach that centers the voice of historically marginalized communities.</p>	<p>Level of review (Type I, II, III, IV) determines the required public review of projects through land-use notices and comment review. Metro as the applicant would respond to and resolve comments and concerns. As in the CNRP field, Metro is committed to community engagement that centers the voices of historically marginalized communities.</p>	<p>Public involvement during the development of the plan. SCPs have typically been done internally, but CAN, and sometimes have involved significant public involvement, Master Plans are public processes with extensive community engagement and Council approval. Project (not Plan) review as required by the City of Portland (see previous column). Metro is committed to engaging the Advisory Committee on shaping conservation and recreation priorities for the next phase of work.</p>	<p>Metro willing to continue to support an Advisory Committee as constituted or reformed to have broader representation to engage the community in conversation about SBWNA. This can be decoupled from the SB Fund.</p>
Projects Review	<p>Outlined in the CNRP. Level of detail depends on the information included at the time of CNRP development. Reviewed according to process stated in the CNRP. If not listed in the CNRP then a Type III or IV review is required.</p> <p>Functionally, the CNRP has not reduced the level of review needed for projects at the time of implementation. So despite the CNRP, project review has effectively been Base Zoning.</p> <p>The CNRP creates administrative and procedural obligations that can and will increase the cost of public projects.</p>	<p>Metro would complete a land-use application for each relevant project and the level of review would be determined by the City of Portland Bureau of Development Services. Depending on the base zoning and overlay zones, some projects are allowed without review. Restoration projects are generally allowed except for/when cutting native trees.</p>	<p>Metro describes restoration projects in Site Conservation Plans, but only addresses recreation at a high level in most cases. There is often an approximate timeline for projects.</p> <p>Master plans provide more detail on public access projects. When funding becomes available, projects would be designed and submitted to the City of Portland Bureau of Development Services for review based on zoning.</p> <p>Reverts to Base Zoning for access or infrastructure projects.</p>	<p>Metro describes projects in the plan. There is often an approximate timeline for projects. When funding becomes available, projects would be designed and submitted to the City of Portland Bureau of Development Services for review based on zoning.</p> <p>Reverts to Base Zoning for access or infrastructure projects.</p>

## Smith and Bybee Wetland Natural Area - Management Alternatives

### Jan 12, 2022 Draft

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Policies/Projects/Descriptions	Comprehensive Natural Resource Plan (CNRP)	Base Zoning: Open Space (OS) with Environmental Protection (p) or Environmental Conservation (c), and Aircraft Landing (h)	Metro Site Conservation / Stewardship Plan and Master Plan	Hybrid Model: Convert existing CNRP to Council Approved Metro "Master Plan"
History/Historical Context	City of Portland's 1990 Natural Resource Management Plan as described in the CNRP	The City of Portland Bureau of Development Services reviews past permits to ensure all conditions are met before issuing new permits.	Metro SCPs and Master Plans include context as an important part of the narrative. It's also important to set the stage for looking ahead. Permitting is Base Zoning.	Metro SCPs and Master Plans include context as an important part of the narrative. It's also important to set the stage for looking ahead. Permitting is Base Zoning.
Approximate Costs	<p>CNRP and City code requires a City approved plan amendment for any project not identified in the CNRP or that has increased disturbances. Amendment process results in substantial and additional administrative and procedural costs for Metro projects.</p> <p>Approximately \$100,000 (+/-) (in City fees and professional costs) to update and approve the present or amended plan. Plan may need to be amended multiple times during its term.</p> <p>As there is no "extension" option, reapproving the plan "as is" is not effective or efficient. An "as is" plan may require multiple amendments to implement Metro projects. Especially since WPES may have project needs. This means likely more costs.</p>	Cost is determined by the City of Portland Bureau of Development Services based on the type of Land Use review required.	Potential consultant costs to support engagement and plan writing, depending on staff capacity. Permit costs for projects as per base zoning.	No cost for taking existing CNRP through our Council. Potential consultant costs to support engagement and plan writing for any future planning efforts, depending on staff capacity. Permit costs for projects as per base zoning.

**INTERIM PLAN**

# Smith and Bybee Wetlands Natural Area

Portland, Oregon



APRIL 2023





If you picnic at Blue Lake or take your kids to the Oregon Zoo, enjoy symphonies at the Schnitz or auto shows at the convention center, put out your trash or drive your car – we’ve already crossed paths.

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## **APPENDICES<sup>1</sup>**

Appendix A: Conservation

Appendix B: Recreation and access

Appendix C: Coordination

Appendix D: St. Johns Landfill typical slope repair environmental review

Appendix E: References

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<sup>1</sup> Appendices from the 2012 CNRP are available as a separate PDF upon request. The appendices have not been updated for this plan. Contents of the appendices will be updated when a formal master planning process is completed.





**Smith and Bybee Wetlands Natural Area Vicinity**



## INTRODUCTION

### CONTEXT

Not very long ago, as human history is measured, the Columbia River was an untamed and dynamic waterway that exerted a powerful force within its floodplain. The bottomlands adjacent to this great river were a maze of channels and sloughs, shallow lakes, ponds, marshes, and forests. The configuration of this complex landscape changed with the seasonal fluctuations of the river and with major flood events. Large and small mammals, waterfowl, birds of prey and numerous other species were very abundant in this productive habitat. Resident and migratory fish thrived in the river, its side channels and wetland habitats.

This dynamic system changed dramatically in the historical blink of an eye when major settlement began in the mid-1880s. Dredging, diking, filling, land clearing, dams and other impacts resulted in a very different landscape. Few semi-natural remnants of the once extensive Columbia River bottomlands remain in the Portland area and Smith and Bybee Wetlands Natural Area is one of the largest of these. The “greater Smith and Bybee Wetlands area” (which includes all natural habitats in and surrounding Metro’s Smith and Bybee Wetlands Natural Area) occupies approximately 2,000 acres along the Columbia Slough near the confluence of the Willamette and Columbia rivers. The greater Smith and Bybee Wetlands area spans multiple ownership interests, including land owned by Metro, the City of Portland, the Port of Portland, and private parties. This area includes the remnants of two large, shallow lakes and a complex of sloughs and marshes.

The greater Smith and Bybee Wetlands area is a hidden jewel. Surrounded on all sides by industrial development, the area continues to provide essential habitat for rare plants and a diversity of wildlife, from less common species such as the western painted turtle, bald eagle and neotropical migrating songbirds, to ubiquitous species such as raccoons, striped skunks and robins. Pulses of wildlife enter and exit as the seasons and water levels change over the course of the year. During winter when water levels are high, Smith Lake and Bybee Lake provide critical off-channel refugia to steelhead trout, Chinook and coho salmon, listed under both state and federal Endangered Species Acts. During the spring and summer, bald eagles and neotropical migrating songbirds’ nest and fledge their young. As

water levels recede, autumnal mudflats are exposed, and a suite of wading birds and shorebirds enter the site. Egrets and sand pipers can be found during this time, either stopping over during their fall migration or preparing for an extended stay and overwinter at Smith and Bybee Wetlands Natural Area. Peregrine falcons have been observed hunting these shorebirds. With the onset of winter rains, the lakes begin to fill, and the cycle begins anew.

Continuing restoration of the St. Johns Landfill (referred to more recently as St. Johns Prairie) provided an exceptional opportunity to create rare Willamette Valley upland prairie habitat. Much of the historic expanse of Willamette Valley upland prairie has been converted to other uses. Upland prairies are home to a suite of rare birds, mammals, reptiles, butterflies and plants. The nearness of St. Johns Prairie to Smith and Bybee Wetlands Natural Area only enhances its ecological value. For example, decommissioned ground around the perimeter of the prairie may provide additional nesting sites for western painted turtle, and the forested areas adjacent provide habitat for cavity nesting birds such as American kestrels, which forage over the prairie.

Metro's Smith and Bybee Wetlands Natural Area Interim Plan is a tool for protecting and enhancing this opportunity. First developed in 1988 (adopted in 1990), the original plan implemented a management framework, provided the funding and instituted the processes needed to begin restoration of the wetlands. The 1990 Natural Resources Management Plan was first developed as a consensus of property owners, neighborhood organizations and residents, environmental interest groups and governmental agencies. The common vision shared by this diverse group included a natural area reserved for fish and wildlife habitat and no-impact or low-impact recreational uses. The adoption of the 1990 plan was the first joint session of Portland City Council and Metro Council. Metro Council President Tanya Collier and Portland Mayor Bud Clark presided. The major outcome was a binding document that:

- Preserved Smith and Bybee Wetlands Natural Area and incorporated the landfill into the management area
- Formed the Smith and Bybee Lakes Advisory Committee to coordinate the vision with landowners and the community
- Opened the door for Metro's role as land manager
- Approved the use of the landfill's "end use fund" for the entire management area
- Established a vision for the area and a set of initial policies and actions.

The advisory committee has convened consistently over the past several decades, but their title has changed. The original name was the Smith and Bybee Lakes Advisory Committee, then a change was made to "management committee." In the late '90s, "lakes" was changed to "wetlands." Unless the reference is to the past, this document will use the current name of Smith and Bybee Wetlands Advisory Committee, rather than Smith and Bybee Lakes Advisory Committee.

In 2012 (adopted in 2013), the original Natural Resources Management Plan transitioned into the Smith and Bybee Wetlands Comprehensive Natural Resources Plan (CNRP) as the guiding plan for the area. The CNRP represented a new vision that built on the legacy of the past several decades, with an emphasis on restoration of wildlife habitat. The CNRP also recognized the importance of integrating human experiences into the Smith and Bybee Wetlands Natural Area. Through those experiences, the area has continued to garner support and provide educational assets within an urban setting.

Uniquely, the CNRP was adopted through a City of Portland conditional use master planning process, resulting in a land use decision that “pre-approved” sixteen restoration, recreational, infrastructure and landfill management projects. The CNRP regulatory review process was established through changes to the Portland Zoning Code in 2011. A CNRP is similar to a conditional use master plan in that multiple property owners may collectively seek approval for land use actions expected to be implemented during the 10-year term of the proposed plan. Some of the projects were completed. The CNRP expires in June 2023. When the CNRP expires, this 2023 Metro Smith and Bybee Wetlands Natural Area Interim Plan (Interim Plan) will take its place and guide Metro’s actions to protect, enhance and restore the natural area, as well as support and manage human experiences in the natural area.

This Interim Plan includes only minor updates to the 2012 CNRP made by Metro and the Smith and Bybee Wetlands Advisory Committee. The Interim Plan is intended to continue the same vision and goals for the natural area, but only applies to those lands owned and managed by Metro or managed by Metro through a management agreement. The Interim Plan will remain in effect until such time that Metro undertakes a formal master planning process.

## GOAL AND OBJECTIVES

This Interim Plan is specific to property owned or managed by Metro in the greater Smith and Bybee Wetlands area. The goal of this plan is to describe a course of action that will protect and enhance the area as an environmental and recreational resource for the region. The greater Smith and Bybee Wetlands area is preserved as a historical remnant of the Columbia River riparian and wetlands system, providing an ecological showcase of native habitats and wildlife. The areas under Metro ownership or management will be maintained and enhanced, to the extent possible, in a manner that is faithful to their original natural condition. Upland habitats of St. Johns Prairie will be functionally linked into the wetlands area, adding diverse habitats that support a greater assemblage of wildlife. Only those recreational uses that are compatible with environmental objectives of the plan will be encouraged. Smith Lake and adjacent uplands will be the principal location for recreational activities. Bybee Lake will be less accessible. Its primary use will be as an environmental preserve.

**To achieve this goal, the plan establishes a series of objectives that are consistent with the 1990 and 2012 plan objectives.**

1. Control water levels in order to manage the wetlands' environmental system.
2. Provide for and maintain habitat diversity representative of lower Columbia River floodplain wetlands.
3. Maintain and enhance water quality in the wetlands.
4. Implement a monitoring program to ensure early detection of potential environmental problems, and to quantify outcomes of management programs.
5. Provide access to Smith and Bybee Wetlands Natural Area that supports appropriate types and levels of recreation.
6. Encourage appropriate types and levels of recreational activities that are compatible with environmental objectives and requirements.
7. Incorporate Smith and Bybee Wetlands Natural Area into the Regional Conservation Strategy, the Oregon Conservation Strategy, the 40-Mile Loop recreation trail system and the region's network of parks, trails and natural areas.
8. Develop upland areas in a manner that is compatible with the preservation and use of the wetlands for passive recreation.
9. Provide opportunities for wetland and environmental system research and education, as well as volunteer stewardship.
10. Develop appropriate funding strategies to implement environmental and recreational improvement projects.
11. Continue to collaborate with property owners within the greater Smith and Bybee Wetlands area, including but not limited to the Port of Portland and City of Portland, to manage the wetlands as a single management unit to promote plan goals and objectives.
12. Integrate management of the wetland habitats with management of the upland prairie habitat at the landfill.

The development of this plan involved many people. Special effort was made by the Smith and Bybee Wetlands Advisory Committee. This plan sets the course for:

- Restoration of seven significant conservation target areas
- Construction of the regional trail and bridge around St. Johns Prairie
- Leveraging the Wetlands Fund with substantial grants and other funding sources to accomplish the goals of the plan
- Continuing the transformation of landfill to upland prairie while fulfilling regulatory requirements.



I can't think of any city in the United States that has such a large wetland ecosystem as ideally situated for wildlife as Smith and Bybee Wetlands, which is in the Pacific Flyway and adjacent to the confluence of the Columbia and Willamette Rivers, yet within Portland, Oregon's major population center. The residents of the region have access to this incredible natural resource, which ensures it will meet its objective forever: to provide a sanctuary for a diverse array of plants and animals. **Larry Devroy, formerly with Port of Portland.**

## HISTORY AT THE SMITH AND BYBEE WETLANDS

People have interacted with the greater Smith and Bybee Wetlands area in many ways over the years, and there are many stories to tell. It is through these stories that we begin to weave together a rich and dynamic experience, one in which we are connected not only to a complex natural system but to our ancestors. We could talk about Indigenous Peoples and their relationship to Smith and Bybee Wetlands since time immemorial, or the preservation views of John Charles Olmsted in 1903. But this update to the 1990 plan is the story of the near-past and the present. The following sections recount recent history of the 20th and 21st centuries, leading to the adoption of the 1990 NRMP for Smith and Bybee Lakes and conservation efforts since that time. In the past 80 years we've changed our relationship to the greater Smith and Bybee Wetlands area from a city dump and hunting ground to a place where we consciously preserve wildlife, learn about the place, and experience nature in a subtle, nonintrusive manner. Just as the landfill was a utilitarian function that reflected the views of the 1930s, today's conservation ethic reflects who we are in relation to the greater Smith and Bybee Wetlands area.

### 1930 to 1970: urban refuse, leisure, and disaster

For more than half a century, wetlands surrounding Smith Lake and Bybee Lake served as a landfill. In 1932 the City of Portland opened a waste incinerator at the site we know today as Chimney Park. For the rest of the 1930s, ash was disposed between Columbia Boulevard and the Columbia Slough. A bridge was constructed over the slough to what became the St. Johns Landfill, where by 1940 incinerator ash and residential and commercial waste were being buried.

Next to the landfill, Smith Lake and Bybee Lake were popular for hunting, fishing and camping. The land around the lakes was privately owned, with a hunting lodge and popular camping area – and a substantial city. Vanport was the second largest city in Oregon, with a multi-cultural population of approximately 40,000 people, including many who worked in the nearby shipyards.

Heavy rains and high snow melt in 1948 caused a massive flood of the Columbia River and the lake lowlands

On the morning of Memorial Day in 1948, the Housing Authority of Portland issued the following statement: “Remember: Dikes are safe at present. You will be warned if necessary. You will have time to leave. Don’t get excited.”

At 4:17 p.m., the western railroad dike burst, sending a 10-foot wall of water from Smith Lake into the area of Vanport College. Numerous sloughs and backwaters in the area delayed the flood’s progress about 30 minutes, giving residents some time to escape. Because of the holiday, many were away from their homes. These factors helped save many lives: there were 15 deaths reported. Nonetheless, Vanport was a complete loss and never recovered.

After the flood, the greater Smith and Bybee Lakes area was more isolated from people and continued as a place for hunting, camping, swimming and horseback riding. One family on Smith Lake operated a hunting lodge, and many people hunted ducks and other waterfowl.

### **1980s and 1990s: transitions and regulations**

In 1980, the City of Portland transferred management of the St. Johns Landfill to Metro and the area was included in the urban growth boundary. Soon afterward, hunting was prohibited in the natural area, and fishing and boating were greatly reduced. After assuming responsibility for the property in the early 1990s, Metro limited public access to help enhance the natural resources that made the lakes so valuable.

Over the years there have been many dams in various locations. In 1983 a dam was installed to keep water levels high and reduce the potential of an avian botulism outbreak at Smith and Bybee Wetlands Natural Area. Unable to leave the lakes, the remaining fish grew plentiful and large. The state record largemouth bass was caught, and the lakes became an important warm water fishery.



In 1985, 55 acres were added to the landfill, but its days were numbered. The City of Portland drafted a Landfill End Use Plan in 1987. People at the time envisioned the landfill as a place for open meadows and recreation. There were plans made for parking areas, model airplane and archery areas, boat ramps and storage. Plans changed again in 1989, when the Department of Environmental Quality required Metro to construct a multi-layer cover for the entire landfill and install a system to collect gas from decomposing wastes. These features were designed to protect air and water quality from the effects of buried waste. As a result, the focus for the landfill shifted from waste collection to environmental protection and conservation.

Over the next two years, a group of community members and public agency representatives developed the Natural Resources Management Plan (NRMP), which was a significant catalyst for change. Adopted by the Portland City Council and Metro in 1990, the NRMP superseded the Landfill End Use Plan, and established a blueprint for landowners and public agencies to take action. At this time, Metro assumed ownership for the landfill itself, although the surrounding wetlands area included many owners. Preparing the 1990 plan brought together diverse parties with a strong vision.

*The goal...is to protect and manage the Smith and Bybee Lakes as an environmental and recreational resource for the Portland region. The lakes will be preserved as historical remnants of the Columbia River riparian and wetlands system...they will be maintained and enhanced, to the extent possible, in a manner that is faithful to their original natural condition. Only those recreational uses that are compatible with environmental objectives...will be encouraged.*

(1990 NRMP, page 9)

As kids in the 1960s and early '70s, Terri Smith-Weller and her friends used to water ski on Smith Lake. West of the boat ramp on the south side of the lake there was a cabin with a wood stove and kitchen. The Smith-Weller family ran a riding academy that rented and broke horses in the late 1940s, probably until the Vanport Flood. The barn was in the area between the diked area and the Columbia Slough.

In the 1960s a private boat club, the 21 Skeeters, had a dock near the boat ramp on the south side of Smith Lake. A raft was anchored near the north tree line, where the water was smoother, drawing as many as 10 families on sunny Sundays.

Smith Lake was considered a better place to water ski than the Columbia River because the trees around the lake blocked the wind. The water on the north side of the lake was beautifully smooth. The water in Smith Lake was about as turbid as it is now. Mosquitoes weren't a problem, likely because the lake was sprayed. Terri remembers that planes would fly over in the early morning spraying the lake – probably with DDT.

On days too cold to water ski, the family took their boat to explore the Columbia Slough. If they went east they reached an area where the Swift meat packing plant dumped liquid animal waste – blood, probably – into the slough. They knew the slough was much more polluted than the lake and avoided touching its water. **As told by Terri Smith-Weller**



In 1991, the landfill closed and the process to cap and cover the landfill began. The Smith and Bybee Lakes Fund was created, with the Smith and Bybee Lakes Advisory Committee providing oversight with Metro serving as fiscal agent. This structure set the course for conservation of the wetlands as the top priority for the next 30 years.

### **1990 to 2023: ecology, restoration and education**

During the past 70 years, community perspective on the greater Smith and Bybee Wetlands area has evolved. The days of hunting, garbage disposal, and water skiing are long gone, but people are still discussing the appropriate level of human interaction with nature. The 1990 NRMP called for a significant environmental education center and trails around all edges of the lakes. However, a major flood in 1996 changed people's perspective on the area. Waters extended over the landfill road, covering it in eight feet of water, and continuous water joined both lakes and the slough. After the flood, the wetlands were viewed even more than before as a watery, changeable environment. Plans for an environmental education center faded, and the earthen dam between the slough and Bybee Lake was replaced with a water control structure, allowing the hydrology to be altered seasonally.



Children were watching a cottontail rabbit cross their path on the Interlakes Trail. It was very close as it hopped from the trail into the shrubbery. Soon afterward, a weasel crossed the trail right in front of the group. They were amazed to see it so near. Suddenly, the squeal of a dying bunny was heard, and the weasel came out of the shrubs with a ball of fur in its mouth. It crossed the trail for the second time, right in front of the group. I was surprised the students did not react negatively to the experience. They were excited at the opportunity to witness a "secret" of nature. The teacher was moved by the experience and very happy the children experienced nature in such a dramatic way. **James Davis, former Metro Naturalist**

In 2001 the City of Portland planned the realignment of Marine Drive, initially infringing on significant habitat for western painted turtles. Many partners came together to protect them, including neighboring landowners who sacrificed some of their land to shift the road location. Parking at Smith and Bybee Wetlands Natural Area was relocated, and a new canoe launch, picnic tables and a restroom were constructed. The action to protect the turtles was a significant demonstration of the growing interest in habitat protection.

In 2004 the community engaged in a difficult discussion about the relationship between people, trails, and habitat preservation. Participants in a feasibility study eliminated planned trails along the east edge of Smith Lake and debated the route of a regional east-west trail connecting the North Portland neighborhood with the trail to Kelly Point Park and Marine Drive. Eagle and blue heron nesting sites were at odds with the regional trail, which would provide important nature experiences and neighborhood and regional connections. The debate was at times heated. Ultimately, the Trail Feasibility Committee summarized the issues and left the decision to the Metro Council. Councilors decided to locate the trail away from the lake's sensitive south side, if a route on the other side of the slough proved feasible. This decision again reflected a growing conservation ethic at Smith and Bybee Wetlands Natural Area and showed caution in putting people too close to wildlife.

Meanwhile, environmental education was growing at Smith and Bybee Wetlands Natural Area, even without the previously planned education center. From 2002 to 2021, the Smith and Bybee Wetlands Natural Area hosted over 500 school field trips, public events and group programs. Tens of thousands of people, including many school groups, have experienced nature and learned about wetland ecosystems here. The primary location for teaching and exploring has been the Interlakes Trail, a paved, accessible trail with two viewing platforms, which was used by 20 to 30 people daily at the time the 2012 CNRP was completed and is now used by 70-80 people per day.

With its transformation to an upland prairie, the former landfill has attracted wildlife. The flora and fauna that use Smith and Bybee Wetlands Natural Area as a home or refuge show that wildlife can survive in cities, if given habitat that can support them. Deer, coyote, river otter, beaver, mink, long tail and short tail weasel, nesting Western meadowlark, streaked horned lark and the western painted turtle have all been seen on St. Johns Prairie. As the methane production decreases, there will be more opportunities for wildlife viewing and education.

The wetlands are identified as an Important Bird Area (IBA) in the state of Oregon, part of an international system of sites that have been inventoried for exceptional avian habitat values. The IBA program is managed by the Audubon Society of Portland and the National Audubon Society.



Having community partners helps Metro do more than we could alone and do it better. Broad perspectives help produce better decisions and partners create capacity to do things that would otherwise be left undone.

**Dave Helzer, City of Portland**

The IBA program has identified the wetlands for supporting tens of thousands of migratory ducks and geese, plus annual concentrations of well hundreds of egrets and herons. Rare species like American white pelicans and willow flycatchers utilize habitats in the natural area. Grassland birds species that are experiencing serious population declines nest or stopover on the upland prairie habitat. Large migratory flocks of sandpipers and plovers forage on emerging mudflats in late summer. Sustaining habitats for these myriad avian species is a major component of the plan.

The 2012 plan described several habitat restoration priorities for a variety of habitat types throughout the greater Smith and Bybee Wetlands area. Many of these priorities have been addressed, with hundreds of thousands of woody plants installed, thousands of pounds of native grass and flower seed applied, and water flows adaptively managed over time to hone an approach to water management that benefits various species that depend on the wetlands seasonally. Careful water management has resulted in a precipitous decrease in dominance of invasive species such as reed canarygrass, while new harmful invasive weeds have arrived and brought new challenges. Metro is tracking progress using a mix of qualitative observation and quantitative measurement of “key ecological attributes” (see next section).

Today, Smith and Bybee Wetlands Natural Area is a beloved area for canoeists and kayakers. The area is large enough to provide a tranquil day trip of navigating Smith and Bybee Wetlands Natural Area. The best time for paddling is during high water; after about June, the water levels are too low. Many describe the paddling experience as peaceful and surprising. Some say that thanks to the screen of vegetation, they feel as if they have left the city and entered a wilderness area.

Smith and Bybee Wetlands Natural Area has become a hub for scientific research and discovery. Over the past few decades, hundreds of examples can be found where researchers, science classes and others have collected data and performed studies of Smith and Bybee Wetlands Natural Area flora, fauna, soils, water, and other natural resources, including graduate theses that have directly informed management of the site. For example, graduate thesis studies have documented significant reductions in reed canarygrass (*Phalaris arundinacea*, an invasive wetland grass) due to a water management strategy that holds water over the grass for the correct length of time in the spring to suppress its growth. Another example is a study underway to estimate the population size and abundance of Western painted turtles. This work will inform how Metro manages Smith and Bybee Wetlands Natural Area to meet the needs of this species.

The ways people can experience Smith and Bybee Wetlands Natural Area are limited and have become more limited over the past 30 years. But the value is clear. The stories that people tell about the area’s past and present reflect our appreciation of natural habitats and wildlife.

The conservation of this landscape was achieved, in part, through the 1903 Olmsted Land Legacy report. As stated in the Olmsted Land Legacy report, “John Charles Olmsted

envisioned a great meadow preserve along the Columbia Slough reaching to Vancouver that would protect the beautiful bottom land scenery.” Smith and Bybee Wetlands Natural Area today is a microcosm of this vision. It has beautiful wetlands and the upland prairie covering the St. Johns Landfill. The area’s vast natural resources provide Portland metropolitan area residents with opportunities to experience this rare remnant of the Columbia River and slough wetland system. This plan’s vision for Smith and Bybee Wetlands Natural Area will continue to coordinate the area’s complex wetland ecological system, provide educational and recreational opportunities, and create memories to pass along to future generations.



For birders the winter may be the best time to paddle across the lakes. Some of the best experiences you can have are early on a light, drizzling weekend morning because there is less noise from the nearby freeway and you can hear the surrounding wildlife. On days like these, you can spend time watching and recognizing birds — familiar and unfamiliar. There are frequent sightings of resident bald eagles flying overhead and occasional sightings of white pelicans. Bird activity can be tremendous in the winter and quite breathtaking. Many urbanites would never imagine having the opportunity of seeing these birds in the city, but you can at Smith and Bybee. **An enthusiastic birder**

## Smith and Bybee Wetlands brief time line

Native Americans lived near and navigated the waterways of the lower Columbia River and Slough as they had since time immemorial.



Hunting lodge operated by the Smith family on the lake.

Smith and Bybee Lakes were a popular camping area.

The natural area moves from a semi-private hunting area to a popular recreation area with hunting, fishing, boating, waterskiing and hiking activities.

Smith Lake floods and devastates the Vanport area.



Time Immemorial to 1800

1900

1950

1960

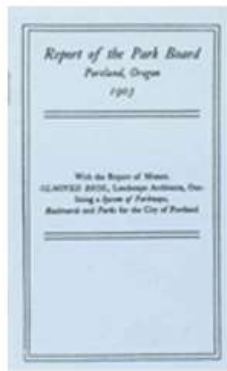
### Abundance

Lewis and Clark Expedition in spring of 1806 – journals detail landscape and Native American life.



### Wildlife and habitat degradation

1903 report to the Park Board. The Olmsted brothers inspire a vision to preserve areas like Smith and Bybee for future generations.



St. Johns Landfill opens to public as the City Dump.



Earthen dam installed on North Slough - trap fish species within the lakes.

1996 Floods - Smith and Bybee Lakes are indistinguishable and flow into one large water body.

Interlakes Trail is constructed.



1970

1980

1990

2000

2010

2023

Legislative change

Conservation

The nation's first environmental protection legislation emerges - a new focus on water quality monitoring and restoration and conservation.

Metro's Smith and Bybee Wetlands Natural Area education program begins.

Smith and Bybee Lakes Wildlife Area Rec. Facilities Plan (1999) - reassessment of natural area after 1996 floods. The plans for the Interpretive Center and many proposed trails are cancelled.

Smith and Bybee Comprehensive Natural Resource Plan focuses on conservation targets and access for people to experience nature. In 2023 the CNRP transitions to an Interim Master Plan.

Metro is given the responsibility for the closing of the St. Johns Landfill.

Smith and Bybee Lakes Natural Resources Management Plan is adopted (1990) and establishes conservation as the top priority.

The water control structure replaces earthen dam on the North Slough. It allows hydrology to mimic historic levels.

Oregon State Legislature stopped expansion of landfill. Began to protect wetlands.

St. Johns Landfill closed to the public and covered. The gas system precludes active recreation plans.

Canoe launch, picnic area and restrooms built based on preserving western painted turtle habitat near Marine Drive.



Smith and Bybee Wetlands Trail Feasibility Study completed - establishes priority for nesting birds on the south side of Smith Lake.



## PLANNING PROCESS SUMMARY

### MANAGEMENT AREA

The greater Smith and Bybee Wetlands Area, as defined by the 2012 CNRP, is approximately 2,000 acres; bounded by North Portland Road, Columbia Slough and the Rivergate Industrial District and including the Columbia Slough, Ramsey Lake wetland mitigation area, and St. Johns Prairie. This 2023 Interim Plan applies to the land and wetlands area that is managed by Metro either through ownership or contractual agreement with other property owners. The Interim Plan applies to approximately 1,760 acres.

### Smith and Bybee Wetlands site map

#### Biological features – habitat

- Two shallow lakes, including permanent open water, emergent wetlands with smartweed and willow
- Forested wetlands, primarily willow, with some areas of Oregon ash and black cottonwood
- Sedge meadow wetlands
- Seasonal ponds
- Upland grassland, riparian forest and woodlands.

#### Biological features – fish and wildlife

- 17 species of fish identified, including resident warm water game species, nongame species and migratory salmonids
- More than 150 bird species
- Numerous species of reptiles, amphibians, mammals, insects, and aquatic invertebrates.





## PLANNING PROCESS

### 2012 Comprehensive Natural Resource Plan

The 2012 Comprehensive Natural Resource Plan (CNRP) built upon a long and distinguished history of planning at the greater Smith and Bybee Wetlands area. Highlights include the 1972 North Portland Peninsula Plan that recognized the wetlands as a viable natural asset for the Rivergate District and was the first plan to establish a balance between development and preservation of natural resources. This was followed by environmental studies by the Port of Portland and the City of Portland's Bureau of Environmental Services in 1987. The findings from these studies led to the development of the 1990 Natural Resource Management Plan.

As work began on the 2012 CNRP, the accomplishments from the 1990 NRMP were readily apparent:

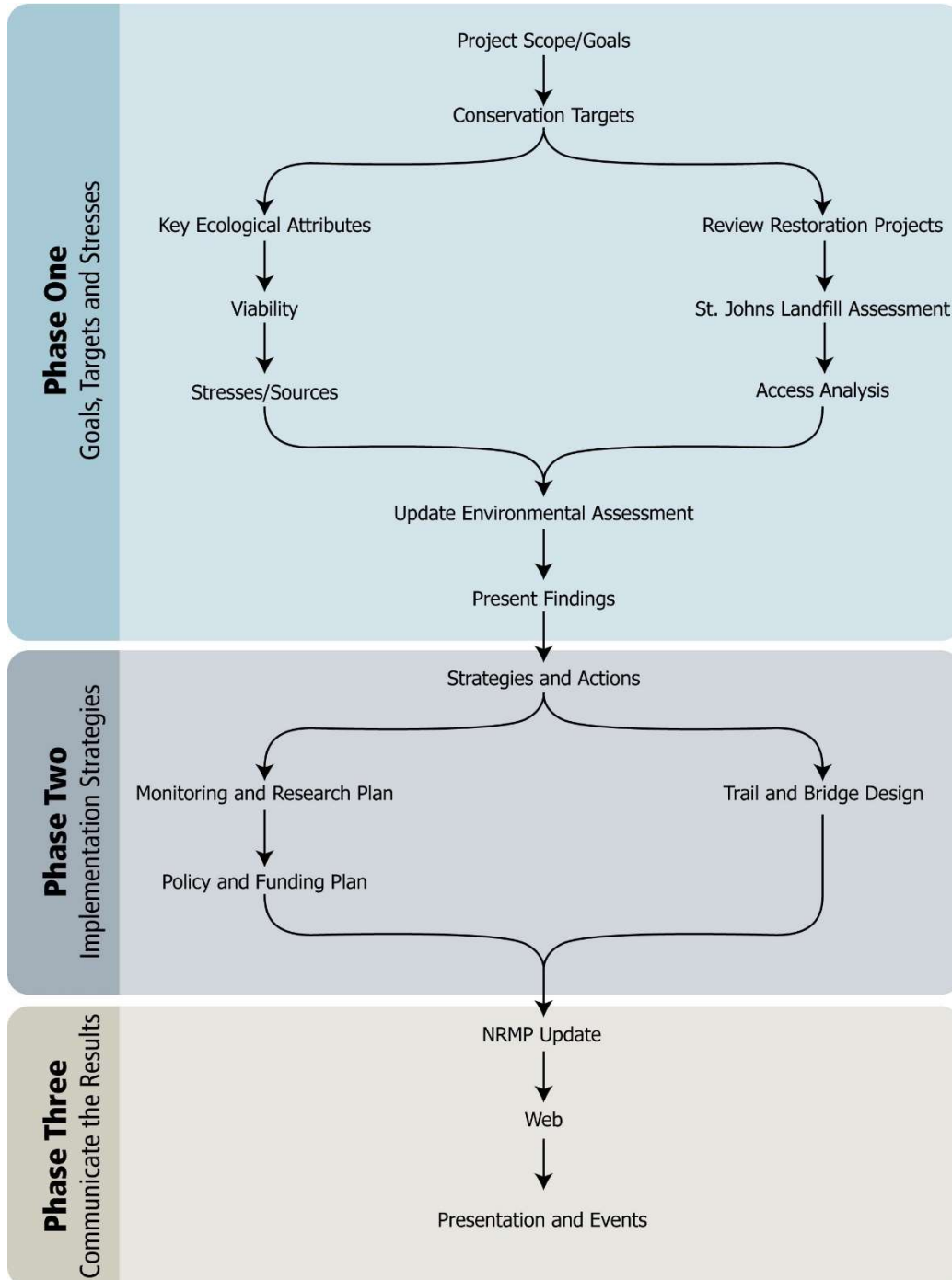
- The establishment of the Smith and Bybee Wetlands Fund, which provides ongoing support for restoration within the management area by Metro staff
- The Smith Bybee Management Committee was established to safeguard the vision
- Property acquisition largely consolidated property into public ownership
- Construction of an effective water control structure
- Habitat restoration projects on more than 100 acres of land dominated by invasive species such as reed canarygrass
- Construction of recreational facilities, including a parking lot, restrooms, trail access and canoe launch
- Hosting environmental education at the site
- Covering the St. Johns Landfill and implementing effective environmental controls.

Building on these accomplishments, the 2012 CNRP updated the 1990 plan. After 20 years of management, there was a new set of objectives. It had become particularly important to establish specific, measurable objectives and strategies that clearly linked to ecological stressors affecting the identified conservation targets for the wetlands. This would allow tracking progress, learning and reporting on the value of funds expended. It was also important to revisit and confirm or modify the vision.

Finally, since the 1990 NRMP was adopted, the St. Johns Landfill was transformed from a site typically associated with environmental and public liability to a community asset with significant potential. The site is still heavily regulated and will need to be actively managed for at least the next 50 years - an estimated 15 million tons of garbage were dumped there. However, there is now ample opportunity to develop a diverse and resilient landscape at the site. Incorporating this thinking into the plan was timely, along with consideration for the regional trail on the landfill, which would offer the community new opportunities for hiking, bicycling and wildlife viewing.

The CNRP planning process began in the summer of 2009 with a discussion of the key topics to address and who should be involved. The Smith and Bybee Wetlands Advisory Committee provided the forum and direction for the planning process, led by Metro and David Evans and Associates. Meetings were open to the public and interested people were invited to each meeting. Meetings were held approximately every other month through May 2011. A public open house and landfill tour was held in October 2010 and presentations were made to interested organizations throughout the planning process.

### 2012 CNRP PLANNING PROCESS DIAGRAM



The planning process was based on a two-tiered approach to improve conservation and integrate meaningful human experiences through physical and visual access. The CNRP recognized that the conservation of species, habitat and natural features must occur simultaneously with the provision for human access to these natural systems. Education and exposure are the cornerstones for protecting the natural area for decades to come. This two-tiered approach also recognized that conservation and access generally have different stakeholders, different funding sources, and different strategic approaches.

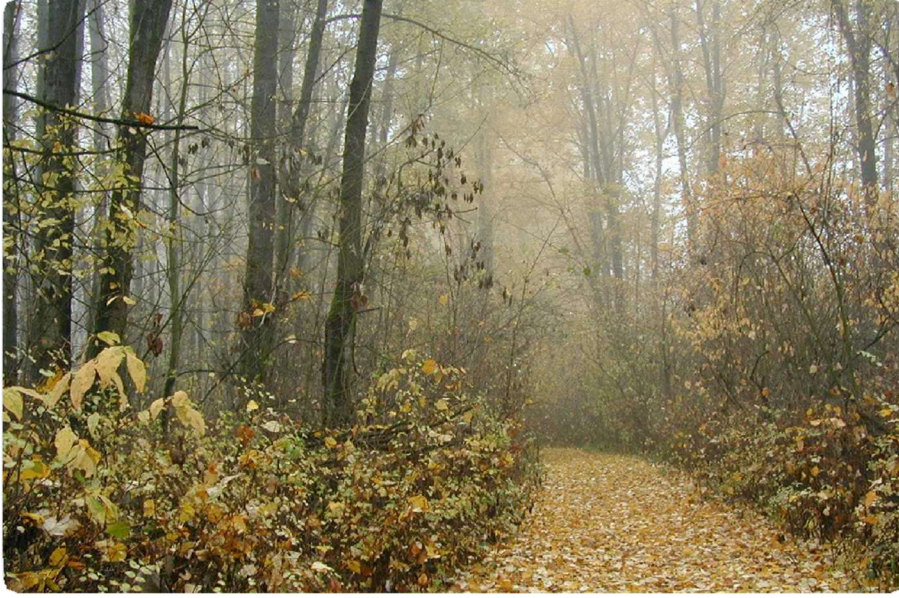
Initially stakeholders reviewed the overarching project goals and objectives common to both conservation and access. The project then developed conservation and access strategies independently. The conservation planning followed a methodology established by The Nature Conservancy and the planning for access built on the 2005 Trail Feasibility Study.

Along with the technical discussions around conservation and recreation, the committee reviewed and revised many components of the management of the wetlands. In 1990 there were many landowners and the designated manager, Metro, had no experience managing natural areas.

After 20 years that picture had changed. As a result, the committee reflected on several aspects of management. Early in the planning process the committee joined Metro in recommending that a new type of document be used for the vision. The 1990 NRMP was adopted into Portland's zoning code and proved unwieldy to modify. As a result, the 2012 plan became the Comprehensive Natural Resource Plan, which was adopted through a land use process. Other management aspects reviewed and revised included use of the Smith and Bybee Wetlands Fund, the roles of the committee and Metro in management decision-making, and the policies that guide actions to increase wetland protection and appreciation by the community.

This 2012 CNRP was anticipated to be a plan for 10 years. During that time, the strategies and actions were carried out, measured, evaluated and adjusted as necessary to achieve plan goals and objectives. Success was measured against the goals and objectives that were largely established in the 1990 NRMP and carefully brought up-to-date with the 2012 plan.





## 2023 Interim Plan

As the 2012 CNRP began to near its expiration date, Metro and the Smith and Bybee Wetlands Advisory Committee began exploring options for replacement. Options considered included writing a new plan, allowing the CNRP to expire without replacement, and adopting a modified version of the CNRP specific to Metro and only applicable to lands Metro owns or manages under agreement. The option selected by Metro and the Advisory Committee was preparation of a minimally updated version of the 2012 CNRP to be reviewed by Metro Council as an Interim Plan for Smith and Bybee Wetlands Natural Area. This Plan is an interim one, extending the conservation vision, goals, and plans for access established in the 2012 CNRP until such time a new formal planning process is initiated.

This transition from 2012 CNRP to 2023 Interim Plan will:

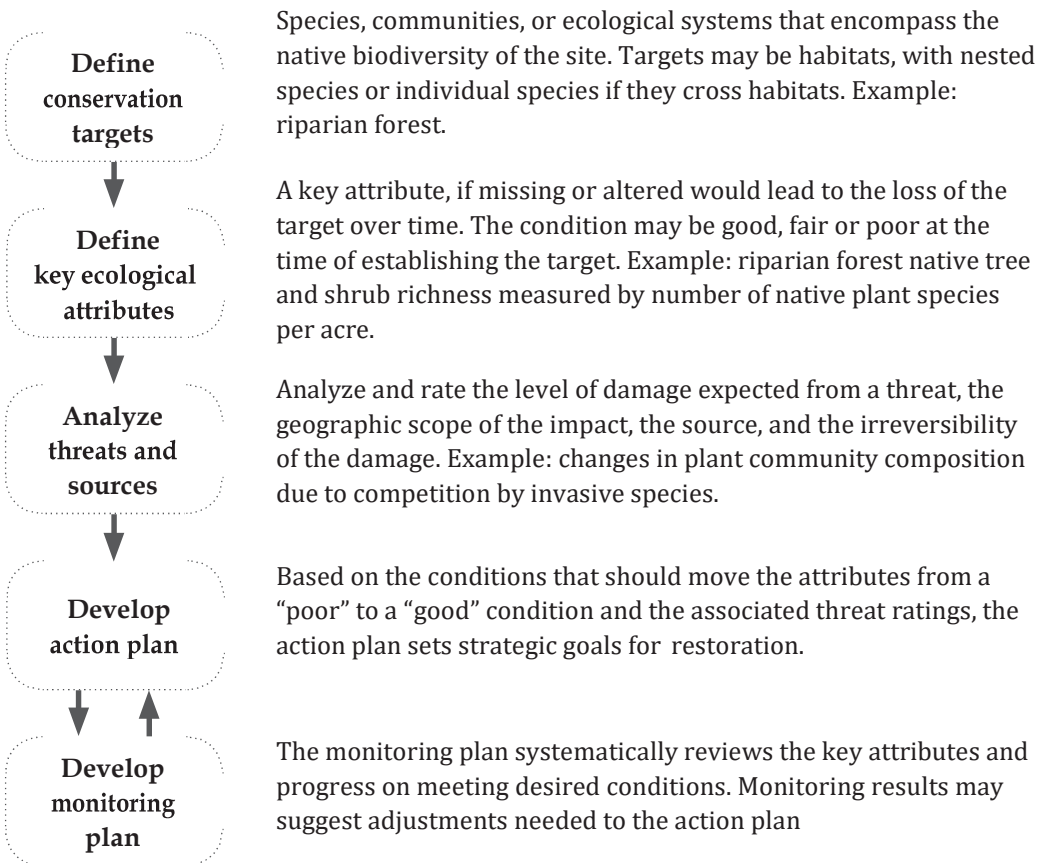
- Make the guiding document for Smith and Bybee Wetlands Natural Area consistent with all other Metro sites that have a planned and formal recreation component and have Master Plans.
- Allow for updating when resources, Metro Council priorities and community interests align.
- Keep the current management vision, including plans for habitat management, access planning and infrastructure development, that was developed in partnership with the community, including the Smith and Bybee Wetlands Advisory Committee, in place until a thorough process can be completed to replace it.
- Allow for the continued advisory relationship between the Advisory Committee and Metro Parks and Nature to remain in place.

The minor updates made to the 2012 CNRP included:

- Addition of language explaining the intent and scope of this plan.
- Updating of existing planned projects to reflect current efforts.
- Documentation of changes in landownership since 2012 and limiting coverage of the plan to Metro owned and managed property.
- Addition of any new actions anticipated by Metro to have a high likelihood of occurring during the near- to moderate-term future.

## CONSERVATION

Conservation has been a priority at Smith and Bybee Wetlands Natural Area for the past 30 years. After pursuing restoration during this period, one of the fundamental questions is “Are the conservation strategies that we are using having their intended impact?” This question is important to the practitioners implementing the strategies, the advisory committee, as well as the stakeholders and donors that support them. This section of the plan provides a framework for conservation in the Smith and Bybee Wetlands Natural Area and sets the stage to answer that question during future management. This framework follows the Conservation Action Planning template (The Nature Conservancy 2007) and includes:



## CONSERVATION TARGETS

Conservation targets are species, communities or ecosystems that, when conserved, ensure the conservation of all native biodiversity at a site. They reflect local and regional conservation goals and are viable or at least feasibly restorable. One example is upland prairie: A healthy prairie has diverse flowering plants that provide food and habitat for pollinating insects. The upland prairie conservation target, when fulfilled, “brings along” a full array of biodiversity.

The complexity of habitats and species at Smith and Bybee Wetlands Natural Area could be characterized in many different ways. In order to be manageable, between five and 10 targets were discussed, starting with habitats present at the site. Each habitat represents the numerous species that are affiliated with the habitat and depend on its health. For example, healthy riparian forest in the Columbia River bottomland should have large trees. Large trees provide nest sites for a variety of wildlife including bald eagles. Bald eagles are not considered a conservation target themselves, but are considered a “nested target” within the riparian forest habitat conservation target. All wildlife are considered nested targets with two exceptions: Western painted turtles became a conservation target because they cross habitat types, requiring special conditions for nesting, basking, etc.; and the Streaked Horned Lark because they have been observed within the management area, were known to occur on adjacent parcels and are a threatened species under the Federal ESA.

The conservation target methodology and the associated ecological attributes are discussed in detail in Appendix A-2, Conservation Targets Background, and Appendix A-3 through A-3.7, Key Ecological Attributes. Using on-site habitat types and regional conservation planning efforts as guides, conservation targets were selected that encompass the site’s biodiversity values and regional conservation targets. These conservation targets are:



### Upland prairie

The grassland at the 250-acre St. Johns Prairie now incorporates many elements of native Willamette Valley upland prairie. About 97 percent of the historical expanse of Willamette Valley upland prairie has been converted to other uses. Metro and many other organizations are actively engaged in upland prairie restoration activities at sites throughout the valley. Streaked horned Lark and Western meadowlark are both Oregon Conservation Strategy species that are associated with upland prairie habitat. Metro has begun restoration of upland prairie on the landfill with three phases underway and a fourth planned to begin within the next few years. Phase 1 of St Johns Prairie restoration is a 17-acre initial pilot area began in 2015 on the northwest corner of the landfill. Phase 2 of prairie work expanded the Phase 1 area to include an additional 45 acres along the western side of the landfill. Work on Phase 2 began in 2016. Phase 3, in the middle of the landfill, covers a 70-acre area and has been undergoing restoration since 2018. Portions of these areas were set aside and managed with low-stature vegetation, vocal playbacks and decoys

to attract streaked horned lark. The final 80 acres of the landfill will be restored as part of a future Phase 4 along the eastern side of the landfill.



### **Emergent wetlands and open water**

Emergent wetlands occupy approximately 823 acres of the greater Smith and Bybee Wetlands area. Nested conservation targets included with emergent wetlands are Columbia sedge (*Carex aperta*) meadows and mudflats. The Columbia sedge plant community is listed as “critically imperiled” both globally and in Oregon by the Oregon Biodiversity Information Center.

Metro has been working to enhance naturally occurring Columbia sedge meadows and create new Columbia sedge meadows since 2015. These meadows are sensitive to drier flood years and require periodic maintenance to address threats from invasive species and woody plant growth in the meadows.

Permanent open water habitats across the greater Smith and Bybee Wetlands area include ponds and Columbia Slough as well as Bybee and Smith Wetlands; they cover approximately 300 acres at drawdown (low water). Mudflats become exposed as the water is drawn down over the summer, providing valuable habitat for migrating shorebirds.

Seasonally high open water covers more than 1000 acres in the winter and spring prior to drawdown, although this varies year to year based on climate fluctuations and water management using the water control structure. Juvenile salmonids, including Chinook, coho and steelhead, feed and grow in the wetlands and are a nested target within the emergent/open water conservation target. During high flows, these off-channel habitats provide critical refugia for the young fish. High flows also have been shown to suppress reed canarygrass, a major threat to emergent wetland habitat, if held at the right time and the right depth in the spring. Upgrades have been made to the water control structure, located at the confluence of the Smith Lake channel and Bybee Lake, to permit fish passage and safe operation. Additional upgrades to the earthen berm on either side of the water control structure are planned within the next few years to strengthen the berm and help address animal burrowing.



### **Shrub wetlands**

Shrub wetlands occupy approximately 363 acres of the greater Smith and Bybee Wetlands area. Little Willow Flycatcher, an Oregon Conservation Strategy species for the Willamette Valley, is closely linked with this habitat. Shrub wetlands dominated by Pacific willow have recently been expanding in response to water management by Metro as well as water fluctuations driven by climate change.



### **Bottomland hardwood forests**

Bottomland hardwood forests (also called forested wetlands) cover approximately 260 acres of the greater Smith and Bybee Wetlands area. Existing stands of Oregon ash include mature trees that are more than 200 years old. Oregon ash is under threat from the recent arrival in Oregon of the emerald ash borer, and Metro is formulating plans for monitoring, detection and response to emerald ash borer when it reaches Smith and Bybee Wetlands. These forests are frequently inundated and provide valuable habitat for neotropical migrants, such as Swainson's thrush and Yellow warbler, and sensitive bat species that may include hoary bat and Yuma myotis. Metro has three phases of restoration of forested wetlands completed or in progress in Smith and Bybee Wetlands Natural Area. Phase 1 consisted of planting and maintenance of ash, willow and other flood-tolerant woody wetland plants across 80 acres beginning in 2015 along the southern edge of Smith Lake and Bybee Lake. Phase 2 consisted of similar planting, aiming to fill in gaps in the existing bottomland hardwood forest canopy, on 55 acres on the east side of Smith Lake. Phase 3 began in 2020 had the final round of planting completed in early 2023 and includes work on 85 acres around the north, east and south sides of Smith Lake. No additional planting phases are planned at this time.



### **Riparian forests**

Riparian forests are gallery-type forests dominated by black cottonwood that line the sloughs throughout the site. These narrow bands of forest provide nesting sites for bald eagle and rookery sites for great blue heron. The bald eagle is a nested conservation target of this habitat type. This habitat occupies approximately 175 acres across the greater Smith and Bybee Wetlands area. Work by Metro and other landowners in this area has included control of invasive species like blackberry and ivy and small-scale planting projects.





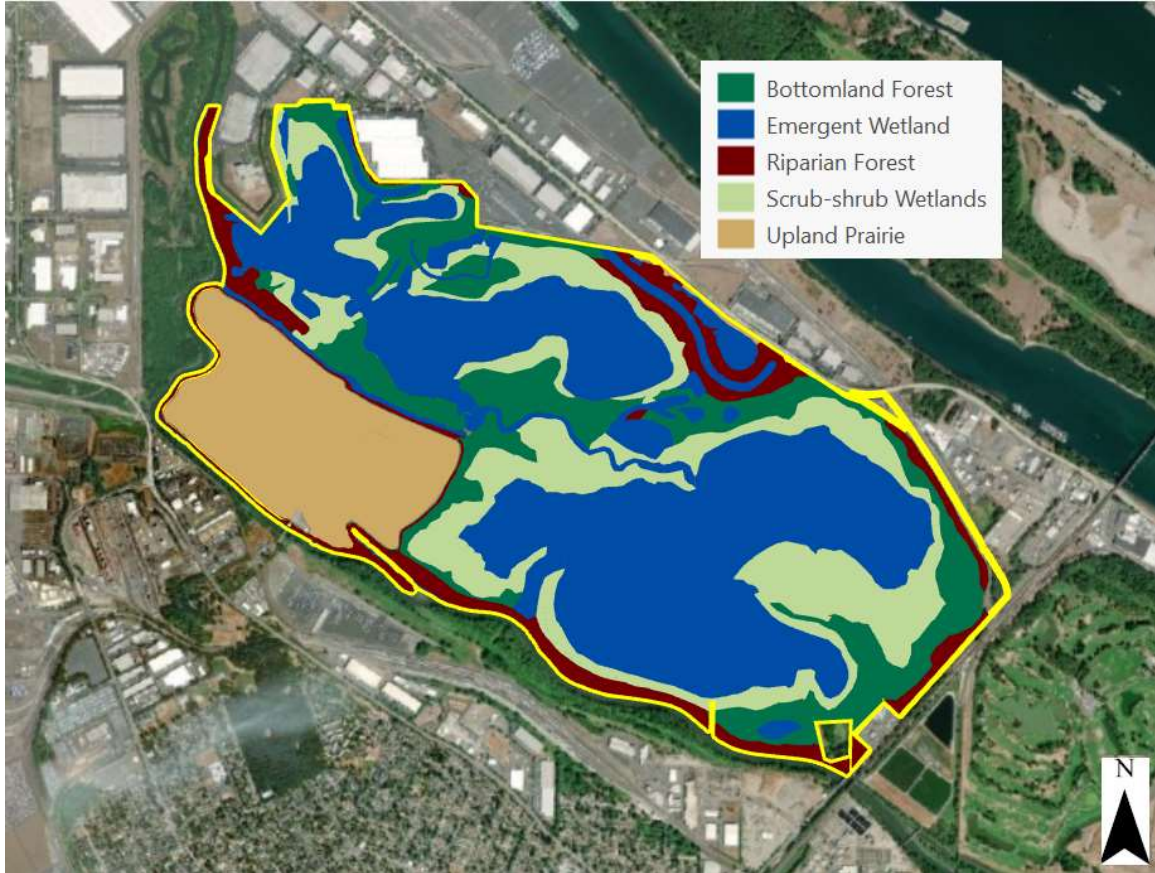
### **Western painted turtle**

Western painted turtles are residents of the open water habitats in the greater Smith and Bybee Wetlands area, but they also rely on other habitats for basking and nesting, including St. Johns Prairie. The western painted turtle is an Oregon Conservation Strategy species and the population at the greater Smith and Bybee Wetlands area is the largest known remaining population in the state. Work by Metro at Smith and Bybee Wetlands Natural Area and by partners on adjacent lands to support Western painted turtle include supporting research and monitoring studies, periodic population monitoring, and management of vegetation to provide ideal conditions in nesting areas.



### **Streaked Horned Lark**

The Streaked Horned Lark is declining throughout its range, including the Portland metropolitan area. Experiments aimed at creating breeding habitat are ongoing at St. Johns Prairie, and as of 2022 have succeeded in use by Streaked Horned Lark for stopover habitat but not for nesting. While pairs have yet to breed at the site, pairs have historically bred at the nearby Rivergate Industrial District and have been observed scouting the newly established habitat at the prairie. The Streaked Horned Lark is listed as a threatened species under the Federal ESA, is an Oregon Conservation Strategy species, and is a focal species in other conservation plans for the Willamette Valley.



### Conservation targets

#### KEY ECOLOGICAL ATTRIBUTES

Once a conservation target is identified, key ecological attributes (KEAs or attributes) are used to measure its health or viability. They are:

- Aspects of a target's biology or ecology that, if missing or altered, would lead to the loss of that target over time
- The biological or ecological components that most clearly define or characterize the conservation target, limit its distribution, or determine its variation over space and time
- The most critical components of biological composition, structure, interactions and processes, and landscape configuration that sustain a target's viability or ecological integrity.

These concepts of targets and attributes are translated into specific indicators that can be measured. By evaluating and rating the attributes' indicators, the foundation is built for establishing restoration goals, tracking progress and measuring success. Below is an example of attributes and indicators for the bottomland hardwood forest target.

## Conservation target: Bottomland forest

Type	Key ecological attribute	Indicator
Size	Extent of bottomland forest including Oregon ash forest	Acres of bottomland forest
Condition	Vegetative structure: tree layer	Percent native tree canopy cover
Condition	Mature Oregon ash	Number and size of mature Oregon ash per acre
Condition	Native tree recruitment	Number of Oregon ash saplings per acre
Condition	Key habitat feature presence: snags	Number of snags per acre

KEAs and indicators are fully described in Appendix A-3, Key Ecological Attributes.

At the time of writing the 2012 CNRP, Metro mapped the conservation targets across the greater Smith and Bybee Wetlands area and provided a preliminary assessment of the overall status of the KEAs for that plan. There were 100 individual polygons representing the conservation target habitat types split between those patches where the KEAs are generally in good or very good condition, or those in poor or fair condition. At the time of writing the 2012 CNRP, all of the bottomland hardwood forest was in poor to fair condition, as was much of the upland prairie target (see table below). A total of 719.8 acres were in poor to fair condition at that time.

2012 CNRP conservation target conditions across the greater Smith and Bybee Wetlands area	GOOD OR VERY GOOD CONDITION		POOR OR FAIR CONDITION	
	Acreage	Number of units (polygons)	Acreage	Number of units (polygons)
Open water/emergent wetland	778.5	14	45.2	13
Shrub wetland	177.6	3	185.6	14
Bottomland forest	0.0	0	259.9	13
Riparian forest	159.8	19	15.6	6
Upland prairie	18.1	6	213.5	2
<b>Totals</b>	<b>1,134.0</b>	<b>52</b>	<b>719.8</b>	<b>48</b>

Beginning in 2021 Metro began efforts to re-assess KEAs for each of the conservation targets. A summary of current conditions is being prepared and an assessment report will be added to this plan as an addendum when completed in mid-2023.

## THREATS AND SOURCES

An effective conservation strategy requires an understanding of threats to targets and the sources of those threats. Adjacent development and subsequent disruption of natural systems place stress on the resource and its inhabitants and threaten the health of the greater ecosystem. More specifically, the following threats are evident:

- Disruption to natural water regimes
- Invasive plants and animals
- Disruption in habitat connectivity
- Human disturbance.

Each conservation target was evaluated for threats. Below is a sample from the open water/emergent wetlands conservation target :

Stress	Stress rank	Source	Source rank	Comment
Native herbaceous species competition for space, water, light, nutrients	Very high	Invasive species; reed canarygrass	Very high	Related to vegetative structure KEA
Decreased fish and amphibian fitness	High	Pollutants in storm-water outfalls	High	Related to water quality KEA
Altered hydrograph	High	Water releases, held by dams	High	Related to native forb and graminoid KEAs
Reduced food supply for ducks, shorebirds	Medium	Invasive species; carp	High	

The methodology is described in more detail in Appendix A-4, Threats and sources.



Even though the landfill prairie is artificial, I love standing on the open grassland, envisioning a time when it will be filled with the spring song of grassland birds; while looking out across the vast expanse of old ash trees, willows and open water.

**Jonathan Soll, Science and Stewardship manager, Metro**

## CONSERVATION TARGET GOALS AND STRATEGIC ACTIONS

Based on the above methodology, the plan outlines strategic actions to be carried out at Smith and Bybee Wetlands Natural Area until such time that an updated Site Conservation Plan or a formal master planning process is initiated. They are based on the short- and long-term goals for the conservation targets and enhancing the visitor experience. The strategic actions described here are general courses of action to achieve these objectives and not highly prescriptive courses of action. Specific prescriptions will be developed by Metro staff to address site-specific conditions encountered in the targeted action areas. Note that these actions were originally identified in the 2012 CNRP and are being continued in this Interim Plan, but the actions now only apply to those locations owned and managed by Metro.

By applying the conservation action planning template, hundreds of acres of habitat are prioritized for restoration. This includes upland prairie at St. Johns Prairie. Because of the large size of the restoration effort that is needed and the constraints of the current budget, actions were prioritized for the 2012 CNRP into one of three categories:

- Priority 1 – These actions would provide significant ecological, educational or visitor experience benefits and are planned to be implemented, first.
- Priority 2 – These actions, although important to the ecological health of Smith and Bybee Wetlands Natural Area and when completed would improve the visitor experience, are less important than Priority 1 actions. Implementation of Priority 2 actions would be dependent on completion of Priority 1 actions. These actions may also be supplanted by the need to address new threats, such as the need to control a new invasive species. The priority rating may also change depending on what Metro learns through monitoring the effects of the Priority 1 actions (an adaptive management approach).
- Priority 3 – These actions, while beneficial to implement, are not likely to occur during the plan period, given current budgetary limitations (personnel and money).

## **Conservation target: emergent wetland/open water**

### **2012 CNRP Short-term goal**

By 2021, increase the extent of Columbia sedge meadow with greater than 40 percent Columbia sedge cover by 22 acres; manage hydrologic conditions that will allow increased distribution of Columbia sedge throughout emergent wetland habitat; and maintain ovipositing habitat for breeding amphibians and fish passage for anadromous salmonids.

### **2012 CNRP Long-term goal**

The desired future condition is to have all key ecological attributes functioning at the good to very good levels, thereby maintaining and restoring habitat suitable for sensitive species such as the tricolored blackbird, dusky Canada goose and migrating and overwintering shorebirds, and providing off-channel refugia for ESA-listed anadromous salmonids.

### **2023 Interim Plan goal**

Maintain natural and restored Columbia sedge meadows that have been enhanced or expanded since 2012 and that are within the plan boundary. Continue work toward 2012 CNRP long-term goal stated above.

### **Strategic actions**

Restoration actions have been concentrated where Columbia sedge meadows had an established presence and we undertaken to allow Columbia sedge to spread, either through natural recruitment, direct seeding with site-collected seed, or planting of plugs grown from site-collected Columbia sedge seed. Encroaching reed canarygrass and woody vegetation will be controlled to maintain and open meadow structure dominated by Columbia sedge.

## EMERGENT WETLANDS AND OPEN WATER

The long-term goals include restoring habitat suitable for sensitive species such as the tricolored blackbird, dusky Canada goose and migrating and overwintering shorebirds. The open water rises and falls from 300 to 1,000 acres and provides off-channel habitat for ESA-listed salmon juveniles.



## **Conservation target: shrub wetland**

### **2012 CNRP Short-term goal**

By 2021, restore 31 acres of degraded shrub wetland habitat to good condition for native shrub richness and canopy cover KEAs. These actions will link shrub wetland habitats that are in good condition but currently separated from other habitats by reed canarygrass monocultures.

### **2012 CNRP Long-term goal**

The long-term desired future condition is to have all KEAs functioning at good to very good levels and providing suitable habitat for special status species such as the Little Willow Flycatcher and ovipositing native amphibians.

### **2023 Interim Plan goal**

Maintain shrub wetlands that have been enhanced or expanded since 2012 and that are within the plan boundary. Continue work toward 2012 CNRP long-term goal above.

### **Strategic actions**

Restoration has been initiated to establish a native shrub plant community in areas previously dominated by reed canarygrass. Water management has reduced reed canarygrass dominance by suppressing the plant during early spring growth. Weed control, water management, and natural periods of shrub wetland expansion and contraction will continue.



## SHRUB WETLAND

With 550 potential acres at Smith and Bybee Wetlands Natural Area, the shrub habitat is one of the largest habitats.

The long-term goal is to provide high quality habitat for species such as the Little Willow Flycatcher and the red-legged frog.



## **Conservation target: bottomland forest (forested wetlands)**

### **2012 CNRP Short-term goal**

By 2021, restore 117 acres of degraded bottomland forest to fair condition including consideration of native tree cover and sapling presence by planting Oregon ash where reed canarygrass monocultures currently fragment the bottomland forest habitats.

### **2012 CNRP Long-term goal**

The long-term desired future condition is to have all KEAs functioning at very good levels, thus creating future interior habitat suitable for special status species such as purple martin, yellow-breasted chat, northern red-legged frog, and two bat species, California myotis and Yuma myotis.

### **2023 Interim Plan goal**

Complete third and final phase of bottomland forest planting, maintain plantings in phases one and two, and monitor health of Oregon ash considering threats like emerald ash borer, on acres within the plan boundary. Continue work toward 2012 CNRP long term goal above.

### **Strategic actions**

Restoration was initiated to establish a bottomland forest plant community in areas previously dominated by reed canarygrass. These actions will link fragmented forested communities and by doing so will reduce edge effect while increasing interior habitat patch size. A combination of aggressive site preparation, planting, caging and annual maintenance will continue as needed in the three phased planting areas.

## **BOTTOMLAND FOREST**

Bottomland forests include willow and Oregon ash forests, with trees over 100 years old present. These forests are frequently inundated and provide valuable habitat for neotropical migrant birds, bats and native amphibians.



## **Conservation target: riparian forest**

### **2012 CNRP Short-term goal**

By 2021, protect large trees from beaver damage in 79 acres of riparian forest.

### **2012 CNRP Long-term goal**

The long-term desired future condition is one where forested and shrub habitats are continuous, not fragmented by reed canarygrass monocultures, thereby greatly increasing the extent of interior habitat at Smith and Bybee Wetlands. All KEAs will be functioning at good to very good levels. Note that existing industrial development and accompanying infrastructure will continue to limit our ability to improve the wildlife movement corridor KEA to very good condition.

### **2023 Interim Plan goal**

Continue efforts to achieve the 2012 CNRP long-term goal above on acres within the plan boundary.

### **Strategic actions**

Areas of riparian forest formerly functioning in a poor to fair condition were found in the Interlake Area and in the area that forms the outside edge of Smith and Bybee Wetlands along North Portland Road. Restoration actions have included a combination of aggressive site preparation, planting, caging, and annual maintenance. Periodic weed control for species such as English ivy and blackberry will maintain these areas.

## **RIPARIAN FOREST**

These narrow bands of forest that line the sloughs are dominated by black cottonwood and provide nesting sites for bald eagles and rookeries for great blue herons.



## **Conservation target: upland prairie**

### **2012 CNRP Short-term goal**

By 2021, restore 140 acres of degraded upland prairie to fair condition for native forb and graminoid cover and availability of natural perches.

### **2012 CNRP Long-term goal**

The long-term desired future condition is to have up to 210 acres of contiguous upland prairie with all KEAs functioning at good to very good levels, thus creating up to ten male meadowlark territories and habitat suitable for other grassland associated species such as Grasshopper Sparrow, Oregon Vesper Sparrow, Western Bluebird, Common Nighthawk, Northern Harrier, Streaked Horned Lark, and Short-eared Owl. Additionally, suitable conditions for nesting western painted turtles will be maintained along the perimeter of St. Johns Prairie.

### **2023 Interim Plan goal**

Continue efforts to achieve the 2012 CNRP long-term goal above on acres within the plan boundary.

### **Strategic actions**

Three phases of upland prairie restoration are underway. Aggressive site preparation using a variety of techniques to reduce non-native, rhizomatous grass cover and to prepare a seedbed that will allow native grasses and forbs to be successfully established. Native seed, bulbs and other plant materials are planted, and competing weeds are controlled during establishment. Monitoring of pollinators, birds and the plant community informs future work via adaptive management.

## UPLAND PRAIRIE

About 97% of the historic Willamette Valley upland prairie has been converted to other uses.

The long-term goal at the St. Johns Landfill site is to have up to 210 acres of contiguous upland prairie with a majority of native plants. Because of the dominant non-native grass, this is perhaps the most ambitious goal in the plan.



## **Conservation target: western painted turtle**

### **2012 CNRP Short-term goal**

By 2021, increase the number and distribution of suitable nesting area KEAs for western painted turtle to very good condition by establishing new suitable nest sites. Increase the basking site availability KEA from fair to good condition by importing basking logs into areas that currently have insufficient basking sites available.

### **2012 CNRP Long-term goal**

The long-term desired future condition is to maintain conditions that will support a viable population of western painted turtles by having all key ecological attributes functioning at good to very good levels. Existing industrial development and accompanying infrastructure will continue to limit our ability to improve nest site connectivity to open water and dispersal corridor KEAs to very good condition.

### **2023 Interim Plan goal**

Continue efforts to achieve the 2012 CNRP long-term goal above on acres within the plan boundary.

### **Strategic actions**

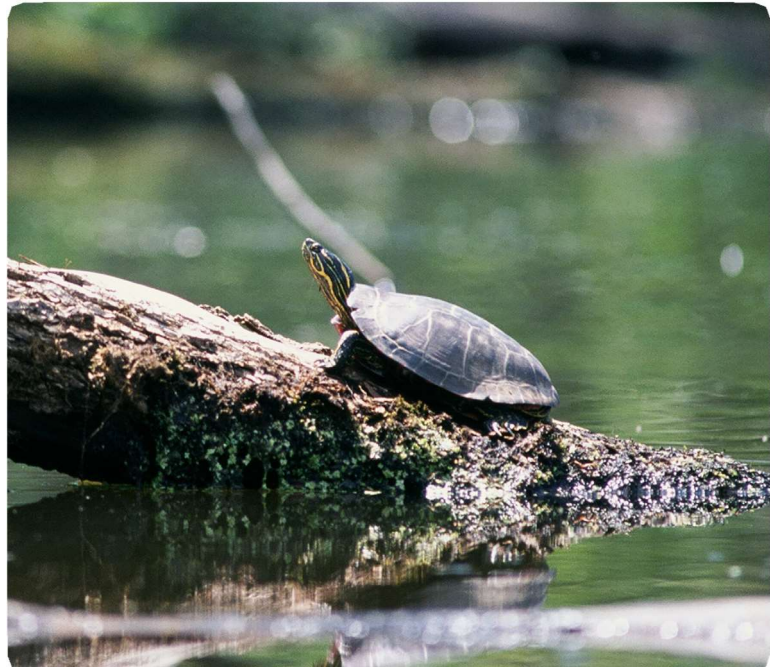
Install basking logs along the perimeter of ponds, lakes and sloughs that lack sufficient material. Locate suitable upland nesting locations, create bare and sparsely vegetated area and limit disturbance. Utilize data from recent turtle studies to inform management



## WESTERN PAINTED TURTLE

Western painted turtles are residents of the open water, moving to other habitats for nesting and basking.

The surrounding industrial development limits the movement of this Oregon Conservation Strategy species and the long-term goal is to maintain conditions that will support a viable population of these turtles.



*Top photo: The invasive red-eared slider (second from right) asks with native painted turtles.*

## **Conservation target: Streaked Horned Lark**

### **2012 CNRP Short-term goal**

By 2021, attract nesting pairs and successfully fledge Streaked Horned Lark at St. Johns Prairie by creating and maintaining ten acres of sparsely vegetated or bare ground nesting habitat with KEAs for graminoid height, woody vegetation cover, and rhizomatous grass dominance functioning at very good to good levels.

### **2012 CNRP Long-term goal**

The long-term desired future condition is to have successful annual nesting by maintaining key ecological attributes for nesting and foraging that function at good to very good levels. The challenge presented by rhizomatous grass dominance will continue to compromise these ecological attributes.

### **2023 Interim Plan goal**

Continue to monitor the prairie for Streaked Horned Lark. Extensive efforts to attract nesting Streaked Horned Lark (soil and vegetation management, use of bird song playback and decoys) has been unsuccessful but the site has been used for stopover habitat.

### **Strategic actions**

In the absence of natural disturbance regime (fire), cultural activities must be conducted annually to maintain KEAs at good or very good condition. These actions may include importing soil, using chemical and/or mechanical methods to maintain bare ground, and experimental habitat configurations (shape and size). Monitor Streaked Horned Lark presence and activities.

**STREAKED  
HORNED LARK**

Streaked Horned Larks are declining throughout their range. Their habitat includes gravelly nesting areas that are relatively rare along with areas for foraging. The goal is to have successful annual nesting at St. Johns Prairie.



The following actions represent ongoing systems or programs that are in place and practices that will be continued and/or enhanced.

### **Habitat restoration**

Strategic habitat restoration actions focus on abating threats and restoring attributes in areas where the overall habitat is functioning in the poor to fair range. In the wetlands and forests of the Smith and Bybee Wetlands Natural Area, this poor to fair range of function is a result of invasive plant species altering the structure and composition of the plant communities by maintaining conditions unfavorable for the natural regeneration of native tree and shrub species. This situation, combined with herbivory by beaver, changes in natural hydrology, and natural aging and decay processes, has left these areas almost void of native trees and shrubs. These voids fragment habitats at Smith and Bybee Wetlands. Strategic actions will restore these voids with native trees and shrubs and link habitats currently functioning in good to very good condition. Linking these habitats will reduce the edge effect and create habitat that is more favorable to habitat specialists, which tend to be the more sensitive or at-risk species (Hennings 2010).

Other restoration actions will increase species diversity within forested and shrub habitats by planting native trees and shrubs and protecting trees from beaver herbivory.

At St. Johns Prairie, the plant community structure and diversity attributes began by functioning at poor to fair levels. This was a result of the non-native seed mix originally sown over the landfill. Perennial ryegrass, birdsfoot trefoil, New Zealand white clover, and other perennial and annual grasses were included in the mix (Metro 1997). Efforts to establish native grasses on the landfill cover were initially unsuccessful, however, the grasses appear to be faring better since the mowing regime was changed from annual mowing to more targeted mowing over smaller areas. Additional native seed and other native plant materials have since been introduced, whether on areas left bare from various landfill closure activities or made bare by habitat management.



## Water management

Water management is a critical management action with significant long-reaching implications. The current water management strategy is to inundate the greatest extent of emergent and shrub wetlands and bottomland forest as possible and maintain high water levels until June, when water is drawn down and allowed to reach equilibrium with the low water levels of the Columbia River. This active manipulation of water levels through the water control structure is intended to mimic the historical annual cycle of flooding and drawdown to the extent possible. It will be continued unless monitoring uncovers unanticipated negative effects of this management strategy. Maintenance of the water control structure will be an ongoing annual task .

### **This water management strategy provides a number of benefits:**

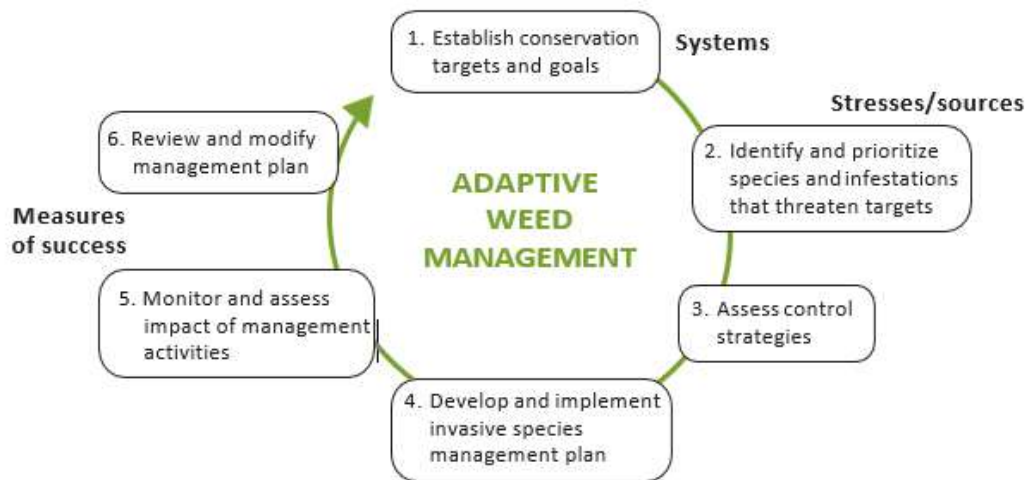
- Maintains emergent wetlands by creating conditions unfavorable to tree and shrub colonization
- Reduces reed canarygrass cover in emergent and shrub wetlands
- Provides access to off-channel refugia to ESA-listed salmonids
- Enhances the Columbia River estuary food web by exporting macrodetrital plant material
- Maintains favorable habitat conditions for ovipositing native amphibians
- Creates favorable conditions for the growth and spread of native forbs and graminoids including Columbia sedge
- Mitigates impacts to the natural hydrologic cycle created by water control structures (dams) in and along the Columbia River and the anticipated impacts related to climate change
- Exposes autumnal mudflats that provide vital habitat for native plants and migrating and overwintering wading birds and shorebirds
- Provides recreational bird-watching opportunities.



## INVASIVE SPECIES FRAMEWORK

More than 100 non-native plants and numerous non-native vertebrates inhabit Smith and Bybee Wetlands. Not all of the non-native species are problematic; however, some are invasive. The Oregon Invasive Species Council defines an invasive species as “a non-native species whose introduction does, or is likely to, cause economic or environmental harm or harm to human health. An invasive species can be a plant, animal, or any other biologically viable species that enters an ecosystem beyond its native range.” At Smith and Bybee Wetlands, invasive species can transmit disease, compete for resources and modify habitats needed by native plants and animals.

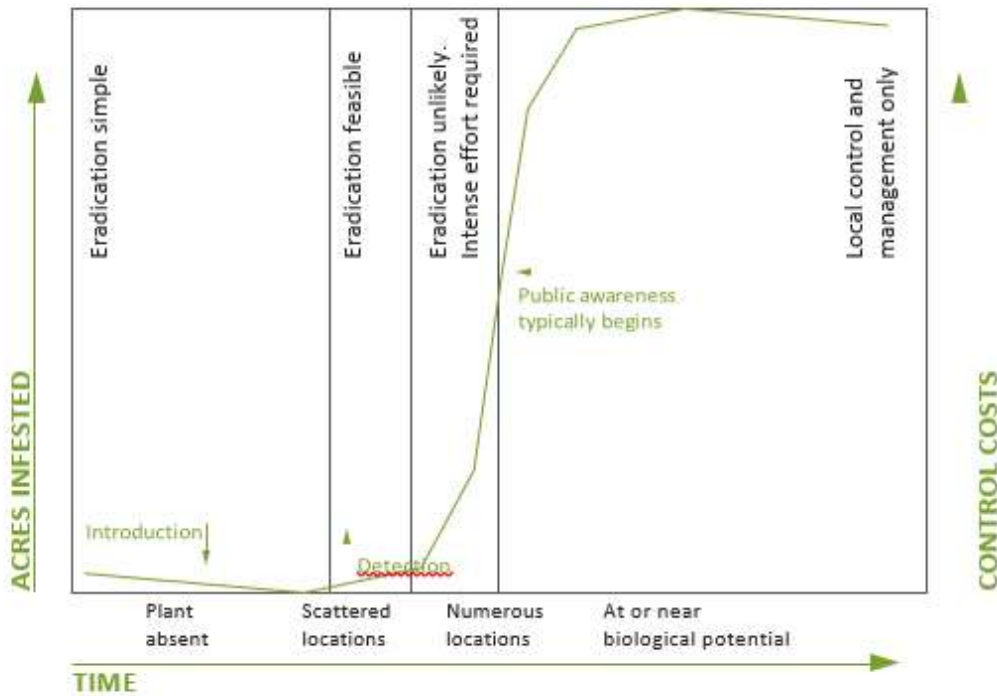
Many of the conservation goals identified for Smith and Bybee Wetlands cannot be reached without managing invasive species. The following diagram demonstrates how invasive species management fits within a conservation planning framework. As potential sources of stress on conservation targets, invasive species must be evaluated and, where needed, controlled.



**Figure 1: weed management in the context of conservation action planning**

Prevention is the first line of defense against invaders and can be the most cost-effective approach. Metro staff implements best management practices such as brushing boots and other gear before and after visits to Smith and Bybee Wetlands to avoid spreading seeds and other propagules. These practices are updated as new information becomes available.

Early detection and rapid response (EDRR) works to prevent establishment of new invaders. As shown in Figure 2, the earlier that an invasive species is detected, the better the chance of eradication. This is especially important for species that can have big impacts on conservation targets. Once an invasive species becomes established in multiple locations, control costs increase substantially, and it is necessary to prioritize sensitive areas and species that are placed at risk by the invader.



**Figure 2: the invasion process. As an invasive species becomes more widespread, control costs increase along with difficulty of control.**

## Plants

Exotic plants at Smith and Bybee Wetlands vary in their invasiveness and potential to interfere with native plant communities. To determine the ecological importance and priority for management action for exotic plants at Smith and Bybee Wetlands, Metro used a three-step process:

1. Develop a list of exotic plants of concern based on site knowledge, the species' presence on Oregon Department of Agriculture's noxious weed list (A or B), and professional judgment of the staff scientist. In evaluating species that are not listed by ODA, the scientist considered input from other Natural Areas Program staff, colleagues in other organizations, informal lists used by organizations such as the 4-County Cooperative Weed Management Area partnership and the City of Portland, and other resources such as Cal-IPC and King County Noxious Weed Program web sites.
2. Evaluate these species using the Alien Plants Ranking System (APRS Implementation Team, 2001), or an equivalent ranking system, in three areas:
  - Significance of impact or threat (site characteristics)
  - Innate ability to be a pest (species characteristics)
  - Difficulty of control
3. Consider additional factors that influence the urgency and need for control, such as:

- Potential to control or eradicate the species via early detection and rapid response (EDRR), avoiding the need for more resources later
- Toxicity of species and presence in publicly accessible areas
- Presence of species in areas of Smith and Bybee Wetlands where it could be picked up by visitors and spread to other sites
- Relative sensitivity of the habitat where the species is found (e.g., Columbia sedge meadows vs. reed canarygrass monoculture).

A complete list of known exotic plants at Smith and Bybee Wetlands is in Appendix A-9. Additional species have been noted since this list was generated. Metro selected 20 species from the list to evaluate with APRS. These species were expected to produce a range of results.

Although it proved a useful exercise to evaluate exotic species at Smith and Bybee Wetlands with an independent program, the APRS produced no surprises. The two species identified as serious threats are reed canarygrass and invasive *Ludwigia* (water primrose). The EDRR species in Appendix A-8, Figure 1 are old man's beard (*Clematis vitalba*), diffuse knapweed, purple loosestrife and Canada thistle. The latter two species really cannot be considered EDRR at this point, since they are established in most of the suitable habitat; every model and ranking system has its limitations.

## **Animals**

Many exotic animals inhabit Smith and Bybee Wetlands, including aquatic and terrestrial organisms representing every major taxonomic group. Control options are more limited for animals than plants, and the three main components for working on exotic animals are:

1. **Habitat management:** Some invasive animals thrive where habitats have been disturbed. An example is the European starling that invades fragmented forest patches and out-competes native birds for nesting sites. Planting projects that re-connect forest fragments into larger patches will provide interior habitat for native birds; this interior habitat is not used by starlings and is a KEA identified elsewhere in this plan.
2. **Work with partners:** Red-eared sliders are established at Smith and Bybee Wetlands, where they compete with native painted turtles for nesting, basking and other resources. Metro can work with Oregon Department of Fish and Wildlife to capture and remove sliders. Another example is cooperative work with Oregon Department of Agriculture; ODA conducts surveys for emerald ash borers. These insects pose a serious threat to the Oregon ash in bottomland hardwood wetlands. By working with ODA to place survey traps at Smith and Bybee's ash forests, Metro can learn about any invasions soon after they occur and work with ODA to control them. Similarly, working with state agencies and regional partners on major threats, such as the emerald ash borer, will result in more effective action on a regional scale than working alone. Other examples include periodic monitoring and control of nutria in partnership with USDA Animal Plant Health Inspection Service.



3. **Support other efforts:** By actively supporting efforts such as the City of Portland's and Oregon Invasive Species Council's Invasive Animal Assessment, Metro can leverage its work and interests.

Invasive species present threats that appear and change quickly. The framework presented in this chapter is intended to be flexible and adaptable. As knowledge and techniques for managing invasive species evolve, new methods will be applied at Smith and Bybee Wetlands Natural Area. The Conservation Target Planning framework for this master plan provides a context for viewing invasive species by evaluating their threat to identified conservation targets. The power of this framework lies in its ability to incorporate new knowledge and changing conditions posed by invasives as Metro monitors progress toward targets' identified goals.



## RECREATION AND ACCESS

The opportunities for people to experience this rare remnant of the Columbia River and slough wetland system are limited and important. The water skiing, camping, and hunting of past decades will not reappear over the next decades. However, it is important for people to enjoy the beauty and wildlife of the natural area while we continue to be responsible stewards and apply the latest scientific understanding of how people and nature interact. The vision for people at Smith and Bybee Wetlands Natural Area is to continue to provide access, in fact to increase it, but in a subtle manner consistent with the conservation goals described in section three and ongoing environmental protection requirements with the closed St. Johns Landfill.

The St. Johns Prairie perimeter road presents an opportunity to build a new regional trail link – the St Johns Prairie Trail. This trail will provide people with a new way to view Smith and Bybee Wetlands Natural Area and the associated wildlife. As a segment of the 40-Mile Loop Trail and North Portland Greenway, the trail will link downtown Portland with the confluence of the Willamette and Columbia rivers, and will provide incredible views to Smith and Bybee Wetlands Natural Area that were previously unavailable.

Beginning with the development of the conservation targets, which led to the process of establishing the key ecological attributes, the planning team was able to understand potential stresses and threats placed on the system. It was verified that not only were some of the stresses and threats naturally occurring, but many were based on human interactions. The prairie trail alignment is carefully considered to both provide access and also have the most limited impacts.

In the fall of 2010 and via a web survey in preparation of the 2012 CNRP, the community was asked: “Which statement best reflects your sense of balance between the preservation

of natural resources and people experiencing nature at Smith and Bybee?" Over half, 55.2 percent of the 30 respondents, selected the following:

The region continues to become more and more developed. Wildlife and habitat preservation is a top priority for Smith and Bybee Wetlands; access by people needs to be subtle and not at the expense of wildlife.

It is with this balance in mind that we carefully embark on the integration of humans into this system. This plan identifies and prioritizes the ways in which people will experience Smith and Bybee Wetlands Natural Area.



### Physical access and recreation

Physical access to Smith and Bybee Wetlands Natural Area is limited but workable, and most people arrive by car or bike. If you look for a way to get to Smith Lake by car, you'll discover the entry off North Marine Drive leading to the visitor area and parking lot. On foot or by bicycle, the Peninsula Crossing Trail is also a good way to arrive at the Smith and Bybee Wetlands Natural Area visitor parking lot. Bus service also brings visitors to the site. From this point you can walk to the Interlakes Trail or launch a canoe at the boat launch. The parking lot and restroom in the visitors area were constructed in 2005 and, with space for 39 cars in the parking lot, the amount of access is deemed sufficient.



The Interlakes Trail and the future St Johns Prairie Trail will be the only trails serving the Smith and Bybee Wetlands Natural Area. Interlakes Trail is a paved loop with two viewing platforms for wildlife viewing. The trail provides an experience of riparian forest habitat with views to mudflats, the wetlands and the associated wildlife. A spur trail from the Bybee Lake viewing platform approaches the channel that separates Smith Lake from Bybee Lake. This portion of the trail is soft surface.



One of the most fun experiences that the public can have at Smith and Bybee Wetlands Natural Area is paddling or boating. The Smith Lake canoe launch is .25 miles east of the visitor area. A gravel path leads to the shore of Smith Lake, where you can place your boat in the water, wade to the side and get in.

During the best paddling seasons, winter and spring, many people use this launch site. Although the idea of adding a dock for boaters' convenience has been discussed, it has subsequently been dismissed. The current configuration works well during high water and becomes more unworkable as the water level declines. When water levels are lower, paddling is more intrusive to the wetlands; therefore, the current launch discourages access appropriately.

## **Field trips, Stewardship and Volunteers**

One of the ways many people experience Smith and Bybee Wetlands Natural Area is through educational field trips. There are two types of educational programs, school programs and public field trips. Environmental education through school trips is available year-round, but primarily occurs in the spring and fall. These programs revolve around what the students, ranging from elementary to college students, are learning in school as well as topics like wildlife watching, tracking, and wetland ecology.

Public field trips happen on weekdays or weekends during the year. Public trips are organized by youth groups, church groups, treatment programs, college classes, and others. Although these field trips are focused on nature observation skills, topics vary and include advanced topics such as management practices, water quality testing, and teaching techniques for environmental education.

There are public events throughout the year, including bird-watching walks, turtle walks, planting events and others. Over the past several years, Metro has worked on a new approach to its community nature activities, with the goal of making them more inclusive. Working with communities of color, Metro co-creates culturally specific and relevant education and stewardship activities. Through hands-on activities like planting and caring for trees and native plants, understanding invasive species, community science projects and plant gatherings, these experiences provide opportunities to connect to each other, build reciprocal relationships with the land, create a sense of belonging and learn about plants, wildlife, and history in the region's parks, trails, natural areas and historic cemeteries. The community education and stewardship program began a strong return after COVID shuttered many of its programs in 2020-2021.

From 2002 to present there have been hundreds of school field trips, public programs and group programs at Smith and Bybee Wetlands Natural Area. The success of the education program has resulted in tens of thousands of individuals learning about wetland ecosystems and experiencing nature.

In addition to the educational opportunities, there are currently volunteer events at Smith and Bybee Wetlands Natural Area, most of which are well attended. Events are permitted or hosted by Metro staff. The role these events play in the care and management of the site is critical, as are the partnerships for monitoring. Activities range from guided bird counts to planting to academic research. There will continue to be opportunities for volunteers at Smith and Bybee Wetlands Natural Area. With priorities established by this plan, volunteers play an important role in reaching the conservation goals.

Finally, the site is a popular location for scientific research. These activities are reviewed and permitted through Metros' Special Use Permit process. Between 2014 and 2022 there were over 40 Special Use Permits issued for scientific research or related activities at Smith and Bybee Wetlands Natural Area.



To volunteer at Smith and Bybee Wetlands Natural Area or sponsor a work party, contact Metro at 503-220-2782 or e-mail [pneducationandstewardship@oregonmetro.gov](mailto:pneducationandstewardship@oregonmetro.gov).

## Management

Similar to the management of the natural resources at Smith and Bybee Wetlands Natural Area, the facilities such as restrooms and parking are managed by Metro staff. The site management issues that have been identified include increased use, aging infrastructure, vandalism, off-trail use, unauthorized camping, management of willows at the viewing platform locations and continued management of dogs on-site and after the St. Johns Prairie Trail is constructed.

The signage system at Smith and Bybee Wetlands Natural Area has evolved over several years, and as such it is somewhat inconsistent. Naming standards and sign types vary from area to area. Way-finding is often difficult and inconsistent, with a variety of sign types. Upgrades are currently proposed to develop a signage system that is consistent with Metro's Signage Standards Manual, provides clear messaging, and reduces the number and types of signs.

One of the most detrimental impacts to Smith and Bybee Wetlands Natural Area and the associated natural resources has been the introduction of dogs by visitors. As part of the initial study to determine stresses and threats to selected conservation targets, humans were identified as a primary threat, in part because they often bring dogs. Research shows that even if dogs stay on the trails, they are perceived as predators by wildlife and their zone of influence can be several hundred feet on either side of a trail. (See Policy 12, page 73.) Dogs will be especially hazardous after the St. Johns Prairie Trail is constructed, because dogs can damage the landfill cap and cover, and their excrement could be carried in stormwater outflows to Smith and Bybee Wetlands Natural Area. Metro's pet policy is also detailed at <https://www.oregonmetro.gov/parks/pets-policy>.

## THE FUTURE: PROPOSED LINKS AND IMPROVEMENTS

The approach to improvements for access to Smith and Bybee Wetlands Natural Area was developed from several sources in preparation of the 2012 CNRP. First, in 2005, Metro began the development of a Trails Feasibility Study with MacLeod Reckord consultants. The results of that study are incorporated in this plan. Second, a web survey asked people:

“What would you like to see more of at Smith and Bybee Wetlands?” They responded as follows:

- Habitat restoration and protection (74.1%)
- Trails (40.7%)
- Wildlife viewing stations (40.7%)
- Education programs (37.0%).

Third, the approach for improvements to access was developed based on recommendations from the staff who work at Smith and Bybee Wetlands Natural Area. They understand the visitors and have experience with the visitors’ needs. Finally, the advisory committee discussed options for access and reached consensus on the following links and improvements.

### **Physical access**

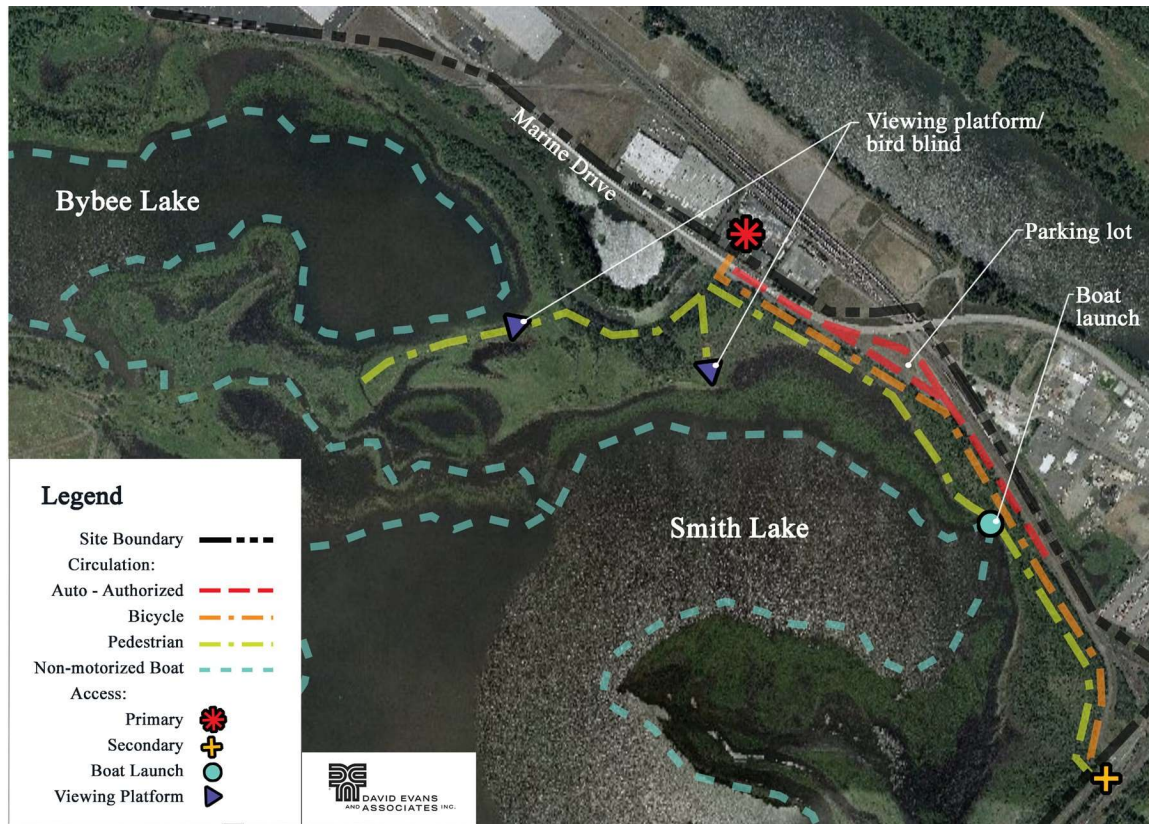
With education, recreation and advocacy in mind, thoughtful and innovative strategies for human integration balanced with the habitat and wildlife requirements is paramount. Incorporating the 2005 feasibility study for the St. John’s Prairie Trail and the North Slough bridge crossing, and more recent feasibility and design work, strategies have been developed that provide responsible access to the area. Careful consideration of the human and natural interface will foster new and continued stewardship of the Smith and Bybee Wetlands Natural Area.

Proposed links and improvements to physical access at Smith and Bybee Wetlands Natural Area are grouped into several major topic areas, as discussed below. These are: the Interlakes Trail, viewing platforms, the St Johns Prairie Trail, the development of viewpoints and portage at the water control structure.

### **The St. Johns Prairie**

One of the most exciting aspects of the plan is the development of a trail system with new access to Smith and Bybee Wetlands Natural Area via the Willamette Greenway Regional Trail (part of the 40-Mile Loop) from Chimney Park. The creation of links to the 40-Mile Loop Trail via St. Johns Prairie will afford visitors previously unavailable access to this unique natural resource. The trail will provide bicyclists, hikers, joggers and nature enthusiasts continuous, non- motorized access within the site with views from St. Johns Prairie to the wetlands, which are unmatched elsewhere on the site.

The need to maintain separation from gas infrastructure on the landfill will require the integration of wildlife friendly fencing adjacent to the trail. Careful integration of the fencing will attempt to maintain views while providing for the security of the exhaust systems and the safety of the visitors. See Appendix B-6 for a discussion on this issue.



### *Interlakes trail area*

## The Interlakes Trail

This trail system currently offers the best dry land access to the site. The majority of the trail is paved, with the exception of the segment beyond the viewing platform on Bybee Lake. The 2012 CNRP identified improvements to this trail including clearer signage and the addition of seating at the Turtle Turnout. Improvements are also proposed for the soft surface trail beyond the Bybee Lake viewing platform to better delineate it, establish the route and to encourage users to remain on the trail and out of adjacent sensitive areas. Options for the extension and improvement of this segment of the trail include raising the grade of the trail above seasonal inundation either by adding base material to lift the grade or by constructing a raised metal grated walkway similar to the walkway at the Smith Lake viewing platform. The improvements would extend from the end of the paved path to the channel that connects Smith and Bybee lakes, providing outstanding views of the wetlands.



### Viewing platforms

There are currently two viewing platforms located at Smith and Bybee Wetlands Natural Area. Both are located along the Interlakes Trail. The viewing platform at Smith Lake is accessed via a raised walkway that crosses seasonally wet terrain and offers views across Smith Lake. These views are, however, partially obscured by tall vegetation. The second one is located on the shores of Bybee Lake and offers views to the west across the lake. Additionally, a viewing area of the long slough (Turtle Turnout) provides a third location for wildlife viewing.



### Portage and relationship to Bureau of Environmental Services canoe launch

There is currently an unimproved, non-motorized watercraft launch located on the Columbia Slough on the west side of the St. Johns Prairie bridge on property owned by the City of Portland. Popular with boaters, this launch site provides access to the slough system around the prairie and into the North Slough that separates the prairie from Bybee Lake. The North Slough terminates at the Metro-owned water control structure adjacent to the channel between Smith Lake and Bybee Lake. A formal portage has been proposed at this location to provide easier access for boaters but was determined to be a low priority and may be unfeasible.

### Viewpoints

The development of strategically located viewpoints and interpretive signage on the prairie will afford visitors with unique views of the entire site and to the Cascade Mountains in the distance. These areas will provide opportunities for visitors to stop, rest and enjoy the site. Interpretive signage will provide educational opportunities with regards to the function and value of the system, further enhancing the visitor experience.

### Management

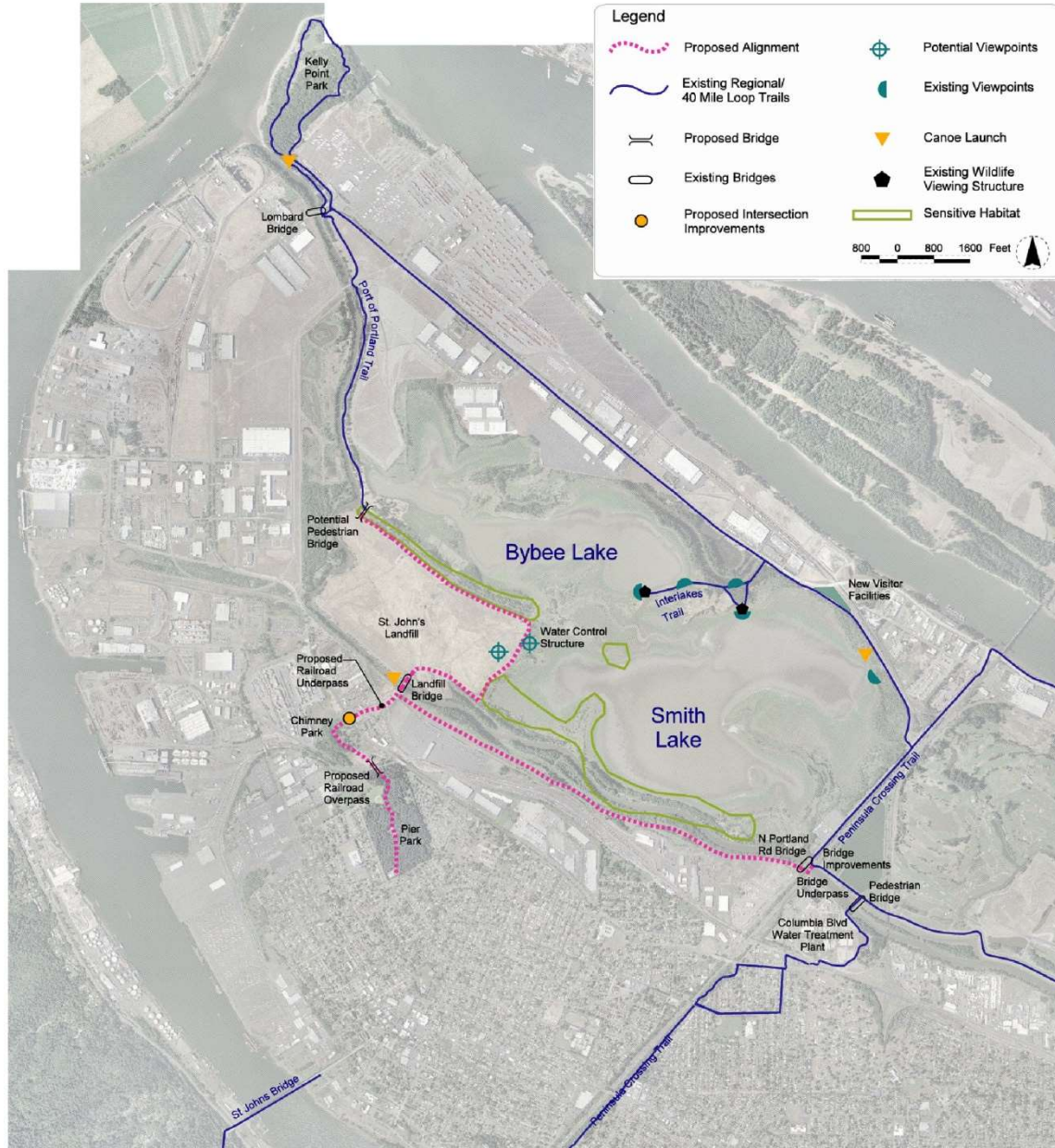
#### Water Control Structure

In 2023 Metro will install vertical sheet pile walls to address leakage and risk of piping in the berm on either side of the water control structure.

#### Willows

The two viewing platform viewing areas are partially obstructed by the growth of willows along the shores of the lakes. In order to maintain existing and proposed views, the plan calls for periodic trimming of willows at Smith Lake. This function has in the past been performed by Metro staff or volunteer work parties.





**Planned trail on St. Johns Prairie connects St. Johns neighborhood with Kelly Point Park and the Columbia River**

## **Dogs**

Because many wildlife species are negatively affected by dogs, including ground nesting birds and turtles, it is the intent of this plan to keep dogs out of Smith and Bybee Wetlands Natural Area, in accordance with Metro-wide policies, including the regional trail on St. Johns Prairie. Signage and enforcement will be key components to the success of such an endeavor. Additionally, it is thought that through education, visitors will understand and accept that dogs are particularly stressful to wildlife and native habitats, and that visitors will provide the self-policing necessary to eliminate the presence of dogs. Some resources devoted to enforcement may be necessary.

## **Signage**

The integration of people into the system requires regulatory, way-finding, and interpretive signage. This signage system will be updated as development occurs. As other physical aspects of the system, such as trails, overlooks and viewing platforms, are implemented, the signage can be added on a project-by-project basis. It is critical that the system remain simple and, to the extent possible, subtle. Without proper planning it is possible for the landscape to become cluttered with redundant or unnecessary information. It should be the goal of the signage system to be beneficial and informative to the visitor without dominating the visual experience.

Metro's Signage Standards Manual establishes a graphic standard that will be integrated into the entire system based on three types of signs – regulatory, way-finding and interpretive. The name of the facility, the key agency, contact numbers and hours of operation will also be standardized.

The desired access and circulation through the site has been determined, and the appropriate signage designated. Acceptable standards with regards to icons and messages will be applied. The content and message for the interpretive signage is arguably the most important element of the system and will need to be carefully considered. All visitors to Smith and Bybee Wetlands Natural Area are potential future stewards of this important resource and, as such, the messages conveyed in the signage will be critical to helping visitors learn about and appreciate the sensitive nature of Smith and Bybee Wetlands Natural Area and the importance it plays in our community.

The following table describes the proposed improvements over the life of this plan.

Projects identified in 2012 CNRP with 2023 updates to provide access to visitors	Priority	
	1	2
St. Johns Prairie regional trail and bridge Construct the trail in St. Johns Prairie including a bridge over the Columbia Slough, an overlook, two overlooks adjacent to the trail, and interpretive signage.	■	
North Slough/Bybee Lake portage Improve the portage between the North Slough and Bybee Lake.		■
Improve access to Interlakes Trail (COMPLETED) Facilitate access to the Interlakes Trail by adding bus parking and parking for people with disabilities at the trailhead. Improve the walk from the parking lot to the trailhead by separating the trail from the road.	■	
Viewing platform renovation Remove the siding on the Bybee Lake viewing platform (COMPLETED). Add a second level to Bybee and Smith Lakes viewing platforms.	■	
Interlakes Trail extension Clarify the need for trail delineation at the end of the paved section of the Interlakes Trail. If needed, validate the seasonal extension with signage and increase the path width to two feet, with bark mulch surface, boardwalk or metal grating.	■	
Continued Signage upgrade (COMPLETED) Create consistent signage and upgrade regulatory signage and interpretive signage.	■	
Seating (COMPLETED) Provide seating at selected viewing areas, including the turtle-viewing area. Could include benches or walls.	■	

As with the capital projects, this list should be revisited periodically for additions and updates.

Over time we will see a change in people’s interaction with Smith and Bybee Wetlands Natural Area. The trail at the St. Johns Prairie will attract more people to and through the area. People from North Portland neighborhoods, as well as from neighborhoods with access to the regional trail system, will benefit from the healthy exercise and experience of nature at Smith and Bybee Wetlands Natural Area.

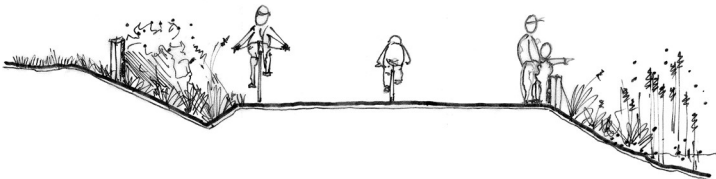
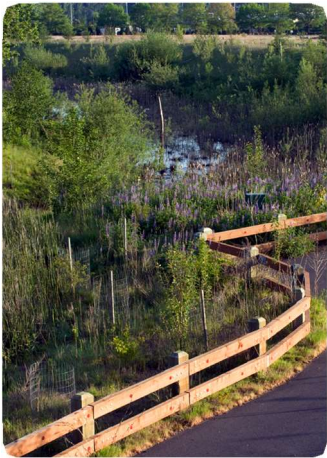
It is anticipated that the public experience on the trail will increase demand for public field trips and environmental education. During development of the 2012 CNRP, the advisory committee reviewed levels of environmental education and felt that they were adequate for

the demand at that time. However, with increased access, the committee anticipates that demand will increase over the life of this plan and, as a result, educational opportunities will need to be increased. With the addition of the St. Johns Prairie Trail to the system, new programs will be developed that highlight the upland prairie habitat.

Adaptive management may be needed in order to keep trail use in line with conservation objectives, minimize risks to public health and safety, and ensure closed landfill operations comply with regulatory requirements. The monitoring plan, described in section five below, will help measure the impact of trail users on Smith and Bybee Wetlands. Adjustments to the physical place and to the management may be needed.

### **Trail and overlook at St. Johns Prairie**

Careful integration of users is vital to the long-term health and support for the Smith and Bybee Wetlands Natural Area. It is critical to foster understanding of the sensitive nature of the resource while providing recreational opportunities for Metro residents. As methane collection decreases, parts of the St. Johns Prairie will be made accessible to the public. In addition to the cultivation of upland prairie and bird habitat, the intent is to develop overlooks to provide visitors panoramic views of the area. The opportunity to provide users unique perspectives of the resource accompanied with educational outreach will help develop stewardship and advocacy for Smith and Bybee Wetlands Natural Area.



**Trail cross section**

## **Closed Landfill Projects**

Metro will operate, monitor, and maintain the closed St. Johns Landfill well into the future per regulatory requirements.

In 2022 Metro completed an assessment of the bridge over Columbia Slough that provides staff access to the closed landfill and the south side of the wetlands complex. The assessment concluded that a new bridge is needed at this location to continue to maintain landfill operations and meet future needs for St. Johns Prairie Trail public access. It is anticipated that design, permitting and construction will take at least four years.

Prior to public access, Metro will undertake projects to separate the closed landfill methane gas infrastructure from the public while allowing wildlife movement.

An assessment of the stormwater system, gas system and landfill liner is being initiated in 2023 and will identify additional repair, replacement, and upgrade projects needed at the landfill. In addition, Metro is also exploring improvements to the landfill to serve Metro staff and visitor needs, including a bathroom, running water, and firefighting capabilities.

Metro may need to build an operations building at the landfill property to house employees that operate, monitor, and maintain the closed landfill.



*Phil Gaddis banding a Yellow Rumped Warbler*

## COORDINATION

The plan has laid out the history and context of the greater Smith and Bybee Wetlands area, along with the conservation and recreation projects for the future at Smith and Bybee Wetlands Natural Area. For those projects to be realized, coordination will be needed on a number of fronts. Important coordination points include:

- Monitoring of the restoration efforts to track effectiveness and making changes to the priorities as needed
- Policies guiding decision-making by the advisory committee as situations arise that may impact the wetlands
- Balancing public access goals with closed landfill regulatory requirements
- Funding to realize the priorities of this plan.

With these tools, it is expected that priorities established by this plan will be realized.

## MONITORING

Monitoring at Smith and Bybee Wetlands Natural Area is an integral part of an adaptive management approach to restoration and maintenance. Based on the monitoring plan developed by Metro, a feedback loop is created between monitoring and management decisions. Monitoring will be done to evaluate habitat and local responses to management actions, as well as progress toward achieving habitat and conservation target objectives.

The monitoring strategy is based on threats and key ecological attributes associated with conservation targets. Generally, the greatest threats to Smith and Bybee Wetlands Natural Area are traced to:

- Invasive plants

- Altered wetland hydrology
- Isolation from other natural areas on the larger landscape
- Habitat fragmentation and associated edge effect
- Human disturbance.

The monitoring plan, Appendix A-7, addresses threats directly and indirectly, by tracking changes in certain ecological attributes. It implements techniques that are well-established and continues many monitoring efforts already in place. The Smith and Bybee Wetlands Advisory Committee reviewed the monitoring approach during development of this plan. The monitoring plan is likely to change over time, however, this is a worthwhile starting point and a useful tool for focusing staff efforts.

### Techniques

Some monitoring techniques are used to monitor more than one conservation target. This discussion is intended to provide a general introduction but not detailed methods and does not include all monitoring methods to be used. In addition to the quantitative monitoring described, qualitative (informal) monitoring by observation also provides useful information to inform management.

**Aerial inspections/GIS:** Several metrics for health of conservation targets relate to their size. Where a desired condition is a minimum acreage, it can be estimated with GIS software using current aerial photography. Similarly, important connections within the natural area and to off-site habitat can be inspected with aerial photographs and mapping of vegetation and other features can be accomplished using unmanned aerial vehicles (UAVs).

**Transects:** These are lines or strips of ground, along which measurements made at regular intervals. Permanent transects will be revisited over the years to track progress toward goals. They are useful in tracking the abundance and composition of native plants and invasive species.





**Point counts:** Avian (bird) surveys during breeding season follow an established and widely used protocol that allows data sharing with other scientists. By tracking changes in the bird community, Metro can detect changes in habitat function as restoration projects mature. The species present can indicate whether excessive edge effect is occurring as well as whether suitable habitat structure for sensitive species is present.

### **Conservation targets**

**Riparian forest:** A combination of transects, point counts and GIS work is used for this target. Because forests develop slowly, the detailed plant surveys along transects will occur in approximately 5-year intervals.

**Bottomland hardwood wetland:** Metro previously conducted several years of avian point counts and established a baseline for the bird community when habitat restoration was initiated. Point counts will be repeated in the future, but immediate monitoring work will focus on habitat patch size and quality. Plant survival in newly planted areas will be monitored visually.

**Shrub wetland:** Rather than transects, this target can be tracked with less-formal surveys than the riparian forest while still providing information on the native plant community development. Much of the shrub habitat at Smith and Bybee Wetlands Natural Area was planted with a variety of species.

Visual inspections while walking through the habitat can confirm they remain present and established. Because shrubs serve as important attachment sites for amphibian eggs, Metro will monitor water levels during the breeding season for red-legged frogs and other natives to ensure the shrubs are flooded properly. GIS methods can also allow monitoring of expansion or retraction of shrub wetland communities over time.

**Open water:** This habitat occupies the most acreage at Smith and Bybee Wetlands Natural Area, has the highest overall threat rank and is the most complex to manage; it includes emergent wetlands as well as permanent water. More time and resources are devoted to



monitoring and adapting management for open water than for any other target. Focused monitoring on the extent and health of Columbia sedge meadows and frequent attention to the water control structure and hydrologic management are necessary. To track effectiveness of water level management, intensive monitoring will be implemented at regular intervals. This plan calls for two years of detailed vegetation monitoring and data analysis every five years as the native plant community develops and reed canary grass and water primrose is controlled.

**Upland prairie:** Existing point counts, transects photo points, and bird monitoring will be embellished with periodic informal surveys to track the presence and general abundance of birds, native plants and invasives on the prairie.

**Streaked Horned Lark:** Metro works with the Streaked Horned Lark Working Group and key partners to establish habitat for this species on the prairie. Habitat and predator monitoring are necessary each year as this project develops. Standard techniques developed by The Nature Conservancy and Washington Department of Fish and Wildlife are used so data can be compared with other projects and sites. Currently, Streaked Horned Lark monitoring is part of general bird monitoring efforts.

**Western painted turtle:** Metro, researchers and partners have surveyed painted turtles in the greater Smith and Bybee Wetlands area for decades and is an active member of the Oregon Native Turtle Working Group. Work is coordinated with other agencies and in partnership with the research community.

See Appendix A-2 for details about each conservation target and the associated monitoring from the 2012 CNRP. When completed an assessment report of monitoring results for the KEAs in this plan will be added as an addendum.

## **POLICY**

The 1990 plan was adopted during a time of change. People anticipated the landfill closing; environmental regulations were new and substantial; and property ownership at the greater Smith and Bybee Wetlands area was fragmented. At that time, Metro was not a natural resource land manager.

The 1990 plan responded to these circumstances with 28 policy statements that were carefully crafted to support the future coordination and management within the greater Smith and Bybee Wetlands area. Policy statements addressed land consolidation, the respective roles of Metro and the City of Portland, and very prominently the intention and use of the Smith and Bybee Wetlands Fund.

The original policies have provided strong guidance when land use decisions or practices were in question. The 1990 plan was adopted as part of Portland's Zoning Code and, as such, the policies were the basis for land use approvals.

After over 30 years the situation has changed. The advisory committee has a history of accomplishments; Metro is well-established as a natural resource and parks agency; and the Fund has been used judiciously. The policies in the 2012 plan, and now the 2023 Interim Plan, bring forward many of the 1990 plan policies, leaving some behind and also address today's issues. Notably, the policies have been changed so as to apply to Metro owned and managed lands (the Smith and Bybee Wetlands Natural Area) rather than the greater Smith and Bybee Wetlands area as a whole as the 2012 CNRP did.

Updated policies for this 2023 Interim Plan are listed below and will be adopted by Metro Council. The following policies provide the basis for implementation of this plan and management of the area.

### **Policy 1**

The plan recognizes that the Smith and Bybee Wetlands Natural Area exists within a regional context. The Oregon Department of Fish and Wildlife's Oregon Conservation Strategy (OCS), the Intertwine Alliance's Greater Portland-Vancouver Area Regional Conservation Strategy (RCS), and other regional plans help set that context. The OCS is Oregon's framework for conserving Oregon's natural resources in a manner that maintains or improves those resources for current and future generations. The OCS identifies priority habitats and associated species of highest conservation concern, describes key issues affecting habitats and species, and recommends conservation actions to address key limiting factors. Smith and Bybee Wetlands Natural Area is identified in the OCS as a "Conservation Opportunity Area." The RCS builds on the OCS and provides greater regional specificity while supporting the overall framework of the state's effort. The plan is aimed at contributing toward the goals and objectives of the state and regional strategies through the management and habitat restoration of the Smith and Bybee Wetlands Natural Area.

### **Policy 2**

There were eight property owners in the 2012 CNRP's defined Smith and Bybee Wetland management area, with the majority of that land owned by the Port of Portland, Metro and the City of Portland. This 2023 Interim Plan applies to those lands owned or managed through contractual agreement by Metro. Additional landowners in the greater Smith and Bybee Wetlands area will be welcome to join in similar agreements as needed.

### **Policy 3**

Metro is the manager of the Smith and Bybee Wetlands Fund for acquisition of land from willing sellers in the greater Smith and Bybee Wetlands area, and for restoration of land under Metro ownership and management; and for the development, operation and ongoing maintenance of the recreational, educational, and environmental facilities and programs proposed by this plan.

Metro will effectively manage the budget for the fund so that it serves the purposes outlined in this plan and maintain the fund in perpetuity. Metro will draft an annual budget for review, discussion and advice from the Smith and Bybee Wetlands Advisory Committee. The committee will recommend a budget. Final approval of annual budgets and final determination on use of the fund is by Metro Council. The fund amount may rise and fall with fluctuations in interest and expenditures.

#### **Policy 4**

Metro manages Smith and Bybee Wetlands Natural Area, including St. Johns Prairie. The primary responsibility is to fulfill the vision and goals established by this plan. This responsibility includes, but is not limited to:

- A. Manage restoration activities that fulfill the conservation target goals in this plan, monitor results and adjust restoration activities as needed
- B. Provide community outreach and environmental education at Smith and Bybee Wetlands Natural Area, as allowed by available funding
- C. Provide ongoing maintenance
- D. Develop the regional trails, in partnership with the City of Portland and the Port of Portland, in the management area as indicated by the Metro Council
- E. Partner and coordinate with the Smith and Bybee Wetlands Advisory Committee to fulfill the goals of this plan
- F. Draft an annual fund budget, annual work plan and work plan budget proposal for review, discussion and recommendation from the Smith and Bybee Wetlands Advisory Committee.
- G. Operate and maintain the closed St. Johns Landfill in compliance with regulatory requirements.

#### **Policy 5**

The Smith and Bybee Wetlands Advisory Committee, formed by Metro in 1990, shall continue to oversee implementation of this plan and provide guidance, partnership, and assistance on implementing the plan. The Smith and Bybee Wetlands Advisory Committee will include, but not be limited to, representatives of the following organizations:

- City of Portland, Portland Parks and Recreation
- City of Portland, Bureau of Environmental Services
- Port of Portland
- Oregon Department of Fish and Wildlife
- Metro
- Friends of Smith and Bybee Lakes
- 40-Mile Loop Land Trust

- Audubon Society of Portland
- A representative of private landowners adjacent to the site
- North Portland Neighborhood Services
- St. Johns Neighborhood Association
- Columbia Slough Watershed Council
- Representatives of adjacent industries.

The Smith and Bybee Wetlands Advisory Committee is the principal advisory body to Metro for Smith and Bybee Wetlands Natural Area.

The primary responsibility of the Smith and Bybee Wetlands Advisory Committee is to keep the vision established by the Natural Resource Management Plan, updated by the 2012 plan, and now the 2023 Interim Plan. This responsibility includes, but is not limited to:

- A. Provide leadership and response to area land use actions that may have an effect on the greater Smith and Bybee Wetlands area
- B. Support the financial strategy by developing partnerships, advocating for grants and otherwise leveraging the Smith and Bybee Wetlands Fund
- C. Communicate and serve as a liaison to adjacent property owners and stakeholders to strengthen community investment in the greater Smith and Bybee Wetlands area
- D. Review project monitoring results and correlate to stated objectives
- E. Recommend and/or review properties to be added to the Smith and Bybee Wetlands Natural Area based on their environmental, educational or recreational value
- F. Support educational and community outreach events promoting Smith and Bybee Wetlands Natural Area as a unique community resource
- G. Review, discuss and advise Metro on the annual budget for the Fund and the annual work plan and work plan budget
- H. Serve as a sounding board for management actions that are outside the annual work plan and have an impact on either conservation goals or visitor experience
- I. Designate the chair and vice-chair of the committee or the process through which the chair will be determined.



### Policy 6

This plan lays out strategies for habitat restoration with the assumption that climate change will require adaptive management techniques, especially for rare species protection. Management tools will include the best available knowledge and may include fire, hydrologic alteration, manual, mechanical and chemical vegetation management approaches.



### Policy 7

Smith and Bybee Wetlands Natural Area provide food and shelter for diverse plant, fish and wildlife communities, many of which are declining or already rare in the region. As demonstrated by the number of conservation targets, multiple objectives exist for the Smith and Bybee Wetlands Natural Area. This plan acknowledges that other entities (e.g., Multnomah County Vector and Nuisance Control) may have a single focus; however, the Smith and Bybee Wetlands Natural Area shall be managed to maintain healthy ecological systems, including an intact food web.



### Policy 8

Metro may negotiate with owners of land adjacent to the Smith and Bybee Wetlands Natural Area for the purpose of acquiring such land in order to better achieve the goals and objectives of the plan. Such negotiations shall proceed only if such owners are willing sellers.

### Policy 9

Metro, in coordination with the Smith and Bybee Wetlands Advisory Committee, will implement monitoring efforts in a way that is consistent with the goals described in this plan.

### Policy 10

The following policy statements shall apply to the St. Johns landfill.

**Regulatory environment:** Management of the landfill site is subject to the terms and conditions of any permit, license, plan or agreement required for post-closure care operations, as required by the U.S. Environmental Protection Agency, State of Oregon, City of Portland, or other agency responsible for regulating any aspect of such operations.

**Regulatory compliance:** Compliance with any in-force regulation, regulatory permits or plans of site post-closure care operations takes precedence over implementing any action established by this plan to support conservation target goals or public access objectives relevant to the landfill.

**Land uses:** Beyond landfill management, the primary use of the landfill site shall be upland prairie and riparian forest habitats, developed and managed consistent with this plan, with consideration of the surrounding wetland habitat, and of public access objectives. Public access to the site shall be limited to trail use, organized tours and educational events.

**Project review:** New projects at the St. Johns landfill that are designed to meet or support post-closure care objectives are subject to land use review under City of Portland zoning code. The Oregon Department of Environmental Quality may also need to review and

approve new project designs if the project could impact site environmental infrastructure and effectiveness of controls.

**Trail guidance:** Trail development on St. Johns landfill, consistent with this plan, shall include design features that are accessible and minimize risks to public health and safety; are protective of the site cover system and other infrastructure; and allow Metro staff to efficiently perform post-closure care operations. Existing landfill infrastructure accessible to trail users shall be armored or otherwise protected or modified to avoid damage or injury to trail users prior to trail opening. Trail construction and maintenance and built trail facilities at the site shall similarly abide by these guidelines.

**Operations definition:** Post-closure care operations at the landfill site shall be conducted in conformance with all applicable regulations and will include, but not necessarily be limited to: maintenance of the integrity of the landfill cover and perimeter banks; management of the landfill gas collection system; and environmental monitoring, environmental investigation and construction and management of remediation facilities stemming from such investigation.

**Operations funding:** Post-closure care operations at the landfill site shall be funded through a financial assurance mechanism approved by the Oregon Department of Environmental Quality under terms of the Solid Waste Disposal Site Closure Permit.

### Policy 11

As a large natural area in Portland, Smith and Bybee Wetlands Natural Area has value for recreational and educational use. Although its primary value is as fish and wildlife habitat, many forms of public use are compatible and encouraged. This plan recognizes the importance of access to nature and people's need to experience nature.

Smith Lake will be the principal area for water-related recreational activities such as canoeing, rowing, fishing and bird watching. Bybee Lake and surrounding wetlands will be managed primarily as an environmental preserve. Bybee Lake will be available for recreational use, although access by foot and boat will be more difficult than to Smith Lake.

As a wetland system, most of the management area is aquatic and the boat launch onto Smith Lake provides access for paddlers to experience the wetlands. Nearby launches at Kelley Point Park and the Columbia Slough near St. Johns Prairie also provide boat access. Additional launch facilities are not anticipated, and boat access is confined to manual and electric propulsion. A portage facility from the North Slough to Bybee Wetland near the water control structure is included in this plan, pending analysis of feasibility and cost.

Opportunities for terrestrial access are limited due to the narrow configuration and flood-prone nature of most land within the management area. The 40-Mile Loop Trail and Interlakes Trail provide access around and into Smith and Bybee Wetlands Natural Area. Additional trails based on the North Slough Bridge and South Slough Trail Alignment feasibility studies are incorporated into this plan.

**Policy 12**

The regional trail(s) described in this plan will make important pedestrian/biking connections between the St. Johns neighborhood and downtown Portland with Smith and Bybee Wetlands Natural Area, Kelly Point Park, and the Marine Drive trail. The trail(s) will provide people a high-quality experience of nature accessible by biking and walking and including viewpoints to observe wildlife.

Because of the potential disturbance to wildlife and wildlife habitat, dogs are not allowed within the Smith and Bybee Wetlands Natural Area.

**Policy 13**

All terrestrial areas not specifically identified for trails or other facilities shall be designated as habitat restoration and conservation areas. Use shall be limited to habitat management, site maintenance, educational programs, and research and monitoring projects.

**Policy 14**

No longer applicable.

**Policy 15**

Mitigation projects may be proposed for Smith and Bybee Wetlands Natural Area. These projects typically aim to compensate for wetland impacts elsewhere in the watershed and/or generate ecosystem services credits for off-site impacts. The Plan does not outright prohibit or allow these types of mitigation projects at Smith and Bybee Wetlands Natural Area. The Advisory Committee will review any proposed mitigation project and make a recommendation on whether or not to allow the project. Metro's adopted Mitigation Policy Framework will service as an essential tool in evaluating potential projects.

**Policy 16**

Clean water is vital to supporting the fish and wildlife at Smith and Bybee Wetlands Natural Area. Stormwater runoff that enters the wetlands from off-site outfalls must meet requirements in the Portland Stormwater Manual. The Advisory Committee may elect to review any proposed outfall project and make a recommendation to property owners and the City. Committee recommendations will be based on water quality, quantity and appropriate design of the outfall. Outfalls that are not permitted, no longer needed or not properly maintained should be eliminated.

**Policy 17**

Infrastructure in the plan area such as streets, water lines, stormwater facilities, power lines, sewers and pump stations protect public health and safety. The plan recognizes this and allows for ongoing maintenance and improvements of public infrastructure to ensure

proper function. Maintenance of these facilities may involve unavoidable negative impacts to native vegetation and wildlife in order to support the long-term functionality of the infrastructure. All impacts that cannot be avoided will be minimized, or otherwise will be mitigated on site.

Further, Smith and Bybee Wetlands Natural Area is surrounded by private industrial uses that are vital to metropolitan Portland’s economy. The plan acknowledges the need for growth of industrial infrastructure on private property. The Smith and Bybee Wetlands Advisory Committee will receive notice and work with industrial partners to make sure that growth is supported and, at the same time, that the wetlands within the management area are protected from impacts.



## FUNDING

Smith and Bybee Wetlands Natural Area has the somewhat unusual advantage of a dedicated endowment fund. The fund was established with the City of Portland’s adoption of the St. Johns Landfill End Use Plan in 1987. Sources of income for the fund included a grant from the City of Portland’s Refuse Disposal Fund, a portion of tipping fees collected by Metro at the St. Johns Landfill and Metro lease payments to the City of Portland. The 1990 plan designated Metro as the lead agency managing the fund and implementing the plan (Metro ordinance No. 91-370A).



Appropriate use of the fund was described in the 1990 plan as “...acquisition of land within the Smith Bybee Lakes Management Area; and for the development, operation and ongoing maintenance of the recreational, educational and environmental facilities and programs proposed by the Smith and Bybee Lakes Management Plan (Policy 4, 1990 NRMP).” The 2012 CNRP and this plan adopts similar language. The original fund balance was approximately \$2.6 million, and at that time it was understood that the fund would be insufficient to fully fund all current and long-term needs.



## Fund use in 2023

Current revenues include a small amount from fees collected from educational program users. Interest is earned on the unused portion of the fund balance. Earnings are based on the current rates of Metro’s average investment portfolio. For comparison’s sake, the 2010-11 fund balance was \$3,987,047 and the fund balance as of February 2023 was \$1,312,951. The fund reimburses Metro for the costs associated with management and oversight of the Smith and Bybee Wetlands Natural Area and has included



a portion of salary for an environmental educator, one natural resource scientist and one ranger. Typically, annual use of the fund includes contracted property services for restoration activities.

As established by the 1990 plan and continued in the 2012 CNRP, decisions for use of the fund are made by Metro as the fund manager, and the advisory committee is the principal advisory body to the fund manager. Metro has an annual budget cycle, with a proposed budget drafted by January and adoption typically by May. The 2012 CNRP established the protocol of annual budget reports from Metro to the advisory committee for their review and recommendation when the budget proposal is in draft form.

### **Strategy for use of the fund**

The program of restoration first outlined in the 2012 CNRP was estimated to cost approximately \$1.5 million over 10 years. The costs ranged from \$1,000/acre to over \$8,000/acre, depending on the challenges posed by the conservation target. Much of this work has been completed using a mix of the Smith and Bybee Fund and Metro's 2013 Parks and Nature Levy. The construction estimates for the regional trail and bridge on St. Johns Prairie will be created and refined through the different design efforts. The cost of these projects will be in the millions based on similar Metro efforts. There are other projects anticipated by this plan, but the projects mentioned above and their estimated costs make the point that the fund alone will not be sufficient.

The general approach for funding includes five key strategies:

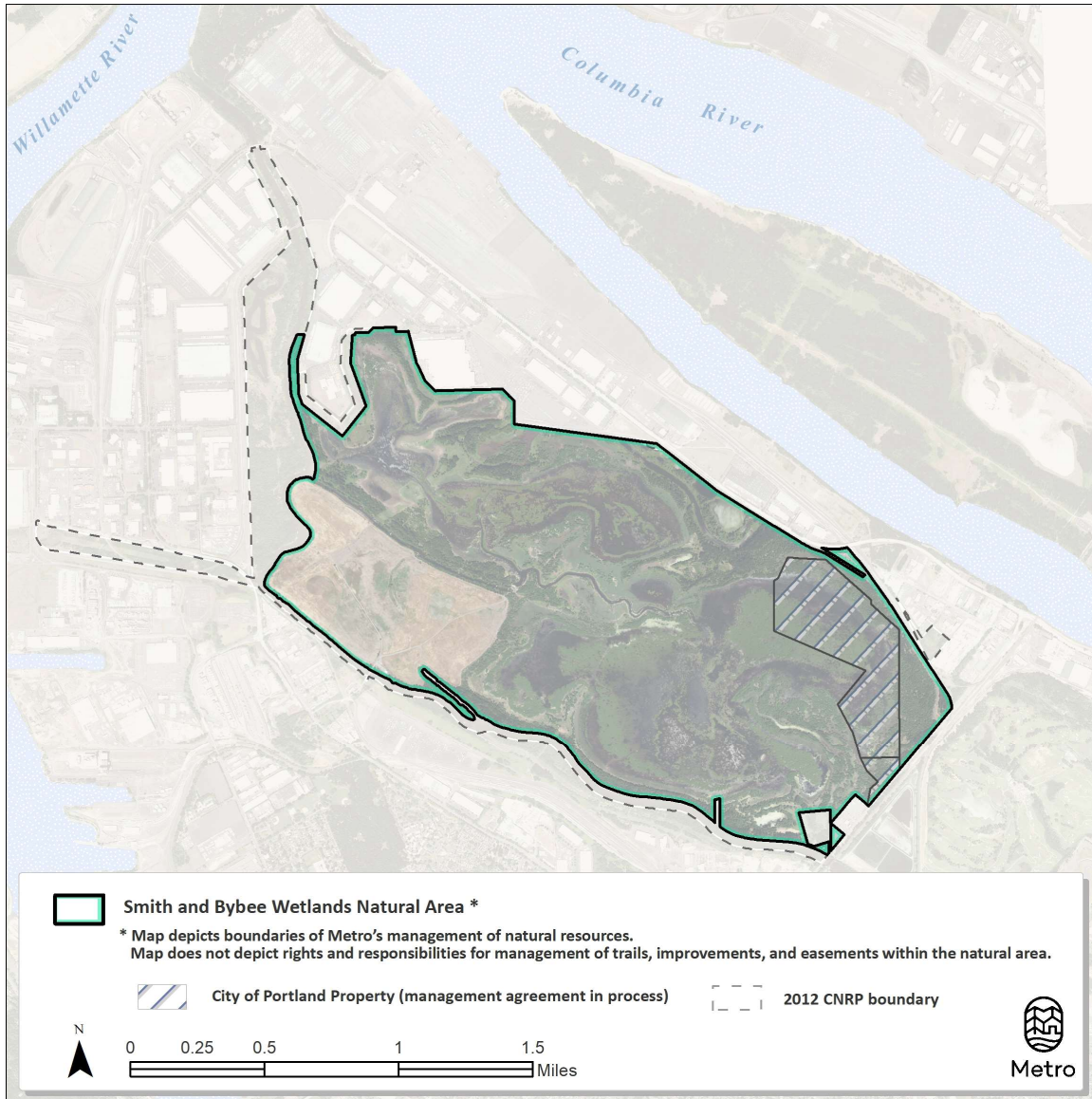
- Use the fund to attract significant grants. The aspiration for restoration is to match the fund one to one with grants. Thus far, pursuit of grants has been unsuccessful, but future opportunities remain. For recreation, the aspiration is to contribute to a match for the regional trail and other access-related projects.
- Bring additional resources to the project work. For example, the Landfill Fund has contributed to vegetation management on the prairie, and grant funding has been sought for prairie work.
- Draw down the fund to achieve high priority goals of the plan. Bring the proposed project work and budget to the advisory committee annually for review and recommendation. Note that grant funding cycles will have schedules that do not coincide with Metro's budget process. Discussions with the advisory committee will factor in grant timing.
- Continue to fund the basic staff positions needed to manage the day-to-day work, as well as the restoration of Smith and Bybee Wetlands Natural Area.
- Enlist the advisory committee's support leveraging funds through community support for grants.

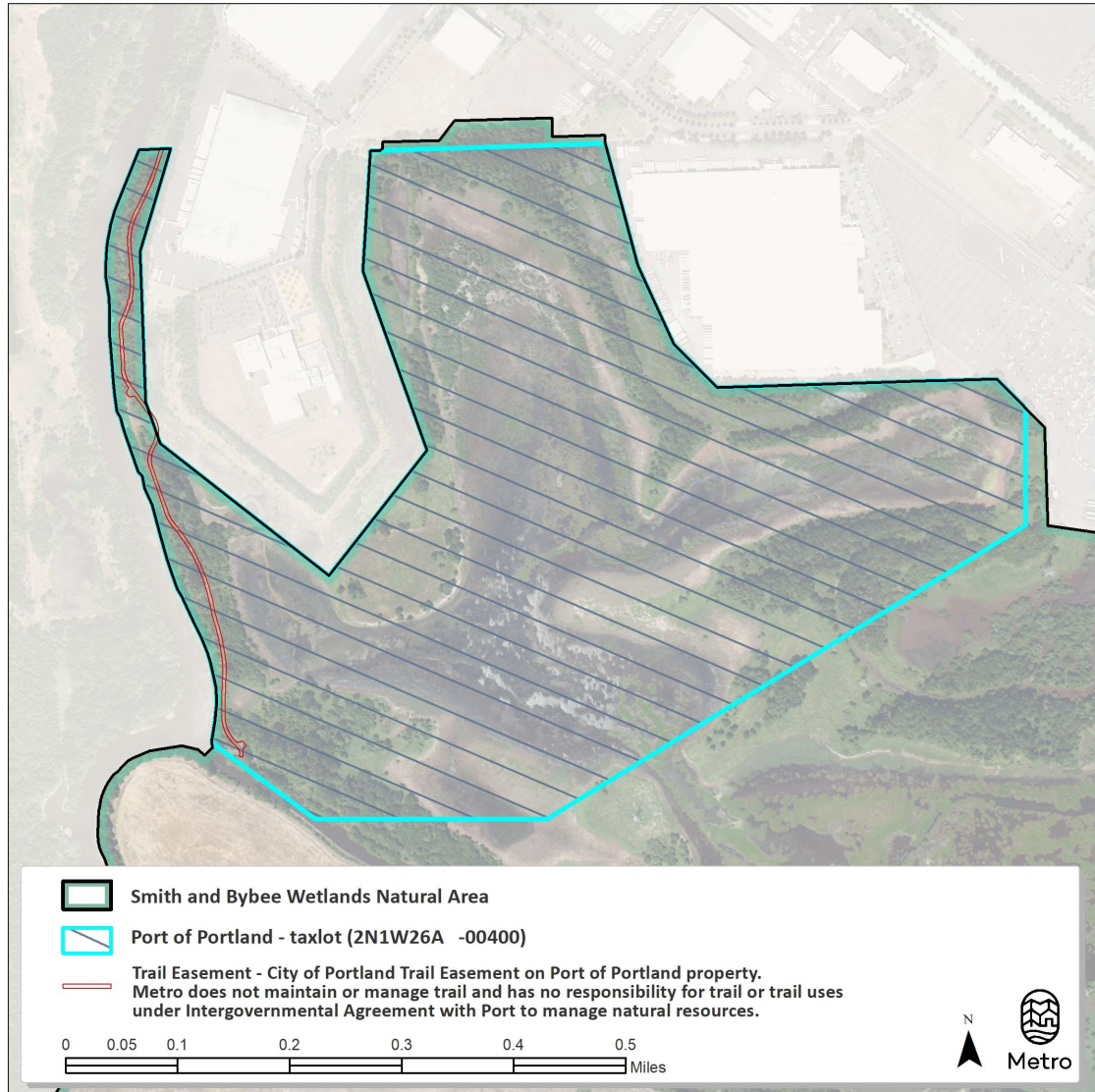
The beginning of the plan referenced the accomplishments of the past thirty years and indicated that the place is vital but the work is not done. The successful accomplishment of

this plan's priorities will rely on coordination between many people. The monitoring program will coordinate on-the-ground actions, the science staff and the key stakeholders. Based on the facts, adjustments and adaptations can be made as needed. Realization of the plan's priorities will also rely on strong coordination between the advisory committee, the community and Metro. The policies set forth here will help facilitate that coordination and will be drawn upon as unexpected circumstances arise. Finally, the plan's priorities will be realized as funding is coordinated. The expectations in this plan are high. To fulfill those expectations, more investment and targeted investment will be needed. Through coordination of the advisory committee, Metro Council and granting agencies the priorities will be sufficiently funded and fully realized.



## SMITH AND BYBEE WETLANDS OFFICIAL BOUNDARY MAP





## GLOSSARY

### GREATER SMITH AND BYBEE WETLANDS AREA

The land Metro owns and manages as well as adjacent lands that were once subject to the 1990 Natural Resource Management Plan and the 2012 Comprehensive Natural Resource Management Plan, totaling approximately 2,000 acres.

### SMITH AND BYBEE WETLANDS NATURAL AREA

The lands owned and managed by Metro, and lands managed by Metro through management agreement, totaling approximately 1,760 acres. This is the area subject to this Interim Plan.

### NRMP

Natural Resources Management Plan This plan was adopted in 1990 by City of Portland and Metro. It established the Smith and Bybee Wetlands Advisory Committee, Metro as land manager, and parameters for use of the Wetlands Fund. It was authorized by Portland Zoning Code 33.430.310. The NRMP is typically referred to as the 1990 Plan.

### CNRP

Comprehensive Natural Resources Plan This plan is a new land use review type authorized by Portland Zoning Code 33.809. Similar to the NRMP, the CNRP allow long-term management for large ecosystems. However, the CNRP does not supersede the Zoning Code but must comply with current zoning regulations.

### INTERIM PLAN

This plan, which applies to Smith and Bybee Wetlands Natural Area, and replaces the 2012 CNRP. The plan will remain in effect until such time as a formal master planning process for Smith and Bybee Wetlands Natural Area is completed.

### CONSERVATION TARGET

Species, communities or ecological systems that encompass the native biodiversity of the site. Targets may be habitats with nested species or individual species if they cross habitats.

### KEA

Key ecological attribute A key attribute that if missing or altered would lead to the loss of the conservation target over time. For example, one of the key ecological attributes of riparian forest is native tree and shrub richness.

### THREAT

Any element that places stress on the resource and its inhabitants and threaten the health of the greater ecosystem. Examples of threats include invasive plants and animals, disruption in habitat connectivity and human disturbance.

**LAKE VS. WETLAND**

The convention used in this plan is to use “wetland” when describing the overall area and the combination of Smith and Bybee Lakes. “Lake” is used when referring to either Smith Lake or Bybee Lake individually. This convention is based on common usage.

**EXOTIC**

A species occurring outside its native range; it is not necessarily invasive.

**WEED**

A common term for plants growing where they are not wanted, weeds can be native depending on the context.

**NON-NATIVE**

Synonymous with “exotic,” it is a species occurring outside its native range and may or may not be invasive.

## **ACKNOWLEDGEMENTS**

### **2012 COMPREHENSIVE NATURAL RESOURCE PLAN**

#### **Smith and Bybee Wetlands Advisory Committee**

The Committee met regularly and made content decisions about the plan development process.

Dave Helzer, Chair, Portland Bureau of Environmental Services Pam Arden, 40-Mile Loop Land Trust

Lynn Barlow, Portland Parks and Recreation

Susan Barnes, Oregon Department of Fish and Wildlife Troy Clark, Vice Chair, Audubon Society of Portland

Larry Devroy, Port of Portland

Sara Henderson, St. Johns Neighborhood Association Dan Kromer and Dan Moeller, Metro

Patt Opdyke, North Portland Neighborhoods Dale Svart, Friends of Smith & Bybee Lakes

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Elaine Stewart, senior natural resources scientist

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Paul Vandenberg, St. Johns Landfill program planner

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Resa Thomason, graphic design and production coordinator

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#### **City of Portland**

The change from NRMP to CNRP was facilitated by Chris Scarzello and Roberta Jortner, City of Portland.

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### **2023 INTERIM PLAN**

#### **Smith and Bybee Wetlands Advisory Committee**

The Committee met regularly and made content decisions about the plan development process.

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Eric Stern, Friends of Smith and Bybee Lakes

Eugenia Tam, North Portland Neighbors

Jonathan Soll, Metro

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Pat Jewett, 40-Mile Loop Land Trust

Troy Clark, Audubon Society of Portland

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