

Tualatin River WC Work Plan for 07/01/2017 - 06/30/2019	
Date Adopted	3/1/2017
Watershed Limiting Factor(s)	Habitat Access - Impaired access to habitat; Hydrograph/water quantity - Altered hydrology; Knowledge Gaps - Lack of Information; Physical habitat quality - Altered quality of physical habitat; Water Quality -Altered physical, chemical, or biological water characteristics.
Watershed Source Document(s)	Tualatin River Watershed Technical Supplement (1998) Gales Creek Watershed Assessment (1998) Dairy-McKay Watershed Analysis (1999) Upper Tualatin-Scoggins Watershed Analysis (2000) Middle Tualatin-Rock Creek Watershed Analysis (2001) Lower Tualatin Watershed Analysis (2001) Lower Gales Creek Habitat Enhancement Plan (2003) Lower Gales Creek Enhancement Planning Geomorphic Assessment, Technical Study, (2006) Lower Gales Creek Enhancement Plan Knotweed and Ivy Mapping and Report (2006) Gales Creek Large Woody Debris Inventory Report (2006) Tualatin Basin stream matrix (2006) Evaluation of removal of selected road fills and adding large wood to West Fork Dairy Creek (2007) Willamette Basin Restoration Priorities (2005) Tualatin River Rapid Bio-Assessment 2013, Final Report Tualatin River Rapid Bio-Assessment 2013 & 2014 Final Report Gales Creek Sub-basin Watershed Action Plan, 2015
Organizational Limiting Factor(s)	Board capacity development; Board skill development; Lack of Knowledge; Staff capacity development; Training
Organizational Source Document(s)	TRWC Vision (1996) TRWC Mission (1996) TRWC Bylaws (2003) TRWC Operating Procedures (2003, amended 2012) TRWC Strategic Plan(2008)
Watershed Action Plan(s)	Tualatin River Watershed Action Plan (1999)

Project Category: Community Engagement (outreach and education)			
Project Title	Community Outreach	OWEB Grant #	212-037
Responsible Parties	Coordinator/Executive Director	Priority	High

Project Description	TRWC serves an area of 400,000 acres, of which over 75% is in private ownership. It is a 4th field watershed with a growing population of approximately 500,000. The demographics of the area are changing rapidly as more people from other cultures call the basin home. TRWC uses a number of different venues to educate its citizens about the watershed and the environmental challenges that it faces. It shares what TRWC does and what the citizens can do to improve conditions in the watershed. It is very important to TRWC that the economic vitality of the watershed is maintained while the environmental conditions are improved. TRWC shares its project monitoring results at Council meetings and the website. As a result of the outreach TRWC is asked to provide resources to private landowners.	In Council Action Plan	Yes
Key Partners	OWEB, TRWC stakeholders, Bureau of Reclamation, Clackamas County SWCD, NW OR Restoration Partnership		
Limiting Factor(s)	Staff capacity development, Board capacity development, Lack of Knowledge, Training		
Original Date	2/23/2017	% Complete	60% - Implementation in progress
Challenges	Engaging the public that isn't already aware of the environmental assets and problems in the basin. TRWC participates in multiple opportunities to fill the knowledge gap that exists. TRWC only has a staff of one and its members have limited time to devote to TRWC.		
Opportunities	Recruitment of future TRWC board members and volunteers will enhance board and staff capacity. Increase the number of Tualatin Basin residents that understand the importance of using healthy watershed practices and make them aware of techniques that they can employ to improve watershed conditions. Identification of potential future projects that landowners would like to do in the basin. There are opportunities to form partnerships with other organizations to increase outreach to the residents regarding healthy watershed practices.		

Planned Deliverables	<p>The Council holds 12 monthly meetings focusing on the following: projects, educational opportunities, and issues impacting the basin. Council meetings facilitate public participation on watershed issues. One off site meeting per year will include dinner and a tour to provide a less formal setting for board members and the public to interact. TRWC will develop a communication strategy that includes website and social media.</p> <p>TRWC will provide native shrubs and trees to landowners in the basin who are working on their individual restoration projects. TRWC reports its project monitoring results at TRWC meetings to demonstrate how these projects achieve watershed objectives over time. TRWC hosts community meetings to share results from projects conducted in or near that community. Develop and distribute TRWC annual report. Provide new board members with an orientation to TRWC. TRWC stakeholders will provide input on regulation development that will affect the basin.</p>		
Update Date	6/14/2018	% Complete	60% - Implementation in progress
Challenges	Engaging the public that isn't already aware of the environmental assets and problems in the basin. TRWC participates in multiple opportunities to fill the knowledge gap that exists. TRWC only has a staff of one and its members have limited time to devote to TRWC.		
Opportunities	<p>Recruitment of future TRWC board members and volunteers will enhance board and staff capacity. Increase the number of Tualatin Basin residents that understand the importance of using healthy watershed practices and make them aware of techniques that they can employ to improve watershed conditions. Identification of potential future projects that landowners would like to do in the basin.</p> <p>There are opportunities to form partnerships with other organizations to increase outreach to the residents regarding healthy watershed practices.</p>		

<p>Deliverables Achieved</p>	<p>Council holds 12 monthly meetings focusing on the following: projects, educational opportunities and issues impacting the basin. Council meetings facilitate public participation on watershed issues. One offsite meeting per year will include dinner and a tour to provide a less formal setting for board members and the public to interact. TRWC continues to maintain its website and social media presence. TRWC will provide outreach to participants at annual basin events, such as Tualatin River National Wildlife Refuge Bird Festival and the regional Children's Clean Water Festival. Planning has begun for a basin-wide State of the Watershed event to be hosted after July 2019. TRWC continues to provide native plants to basin landowners. TRWC hosts community meetings to share results from projects in or near their community. TRWC continues to develop and distribute its annual report and provide new board members with orientation to TRWC.</p>		
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Project Category: Community Engagement (outreach and education)			
Project Title	Gales Creek Landowner Outreach and Project Development	OWEB Grant #	
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	TRWC is focusing on the Gales Creek watershed for education, outreach and watershed enhancement. Gales Creek is the only Tualatin Basin sub-basin recognized as federal critical habitat for winter steelhead trout. TRWC completed the Gales Creek Sub-Basin Restoration Action Plan, April 2015 (posted on our website) and has and will continue with its partners to meet with Gales Creek landowners who are interested in riparian, wetlands and upland enhancements. TRWC and its partners will identify programs and/or resources that can aid landowners in enhancement projects	In Council Action Plan	No
Key Partners	Bureau of Reclamation, TSWCD, TRWC partners, ODFW		
Limiting Factor(s)	Lack of Knowledge, Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	60% - Implementation in progress
Challenges	Finding ways to connect with landowners whose lands could result in beneficial and high ranking projects and who have interest in partnerships to implement such projects. Identifying and matching the timing of funding resources with landowner interest.		
Opportunities	Collaboration with TRWC partners and Gales Creek landowners in development and implementation of high priority projects. As the projects are developed and implemented the land owners will learn more about how to do restoration and the benefits of restoration and the hydrology, water quality and physical habitat will be improved.		
Planned Deliverables	Development of enhancement projects with willing landowners resulting in implementation of projects that address limiting factors identified in the Gales Creek Sub-Basin Restoration Action Plan.		
Update Date	6/14/2018	% Complete	60% - Implementation in progress

Challenges	Finding ways to connect with landowners whose lands could result in beneficial and high ranking projects and who have interest in partnerships to implement such projects. Identifying and matching the timing of funding resources with landowner interest.		
Opportunities	Collaboration with TRWC partners and Gales Creek landowners in development and implementation of high priority projects. As the projects are developed and implemented the land owners will learn more about how to do restoration and the benefits of restoration and the hydrology, water quality and physical habitat will be improved.		
Deliverables Achieved	TRWC and partners met with a White Creek landowner to evaluate potential for a large wood placement project and a private road culvert replacement. TRWC is currently reviewing potential funding opportunities to implement this work. A Clear Creek landowner outreach meeting is planned for winter 2019 to gauge interest in developing a large wood placement project in a one mile stream reach. An updated 2019 Ihler Creek rapid bio-assessment survey is planned for August 2019 with follow up to share updated information with Ihler Creek landowners and potential project identification.		

Project Category: Community Engagement (outreach and education)			
Project Title	Tualatin Basin Tours	OWEB Grant #	
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	This project engages Tualatin Basin residents and TRWC partners by providing tours of restoration projects to a) provide information about Tualatin Basin resource challenges; b) encourage residents and landowners to undertake projects and share project information and needed expertise; c) share results of implemented restoration projects with Tualatin Basin residents; and d)inform Tualatin Basin residents about TRWC activities and projects.	In Council Action Plan	Yes
Key Partners	City of Tigard, Clean Water Services, TRWC stakeholder groups, Tualatin Basin residents		
Limiting Factor(s)	Staff capacity development, Board capacity development, Lack of Knowledge, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	60% - Implementation in progress
Challenges	Identification and recruitment of Tualatin Basin residents and landowners and TRWC partners to participate in tours. Sufficient, energetic and knowledgeable staff, board members and volunteers to lead tours. Funding for transportation or volunteers to drive. Our past HOA projects were funded by OWEB small grants that have a two year implementation period. There is currently discussion in the basin of using other funding sources to increase implementation to five year period.		
Opportunities	Recruitment of future TRWC board members and volunteers will enhance board and staff capacity. Increase the number of Tualatin Basin residents that understand the importance of using healthy watershed practices and make them aware of techniques that they can employ to improve watershed conditions. Identification of potential future projects that landowners would like to do in the basin. As the projects are developed and implemented the water quality and physical habitat will be improved. Exploring opportunities to expand types of tours to include partner projects.		
Planned Deliverables	Future tours will be focused on TRWC and partner projects to encourage development of new restoration opportunities.		

Update Date	6/14/2018	% Complete	5-30% - Conceptual/Planning/Submitting Grant application
Challenges	Identification and recruitment of Tualatin Basin residents and landowners and TRWC partners to participate in tours. Sufficient, energetic and knowledgeable staff, board members and volunteers to lead tours. Funding for transportation or volunteers to drive. Our past HOA projects were funded by OWEB small grants that have a two year implementation period. There is currently discussion in the basin of using other funding sources to increase implementation to five year period.		
Opportunities	Recruitment of future TRWC board members and volunteers will enhance board and staff capacity. Increase the number of Tualatin Basin residents that understand the importance of using healthy watershed practices and make them aware of techniques that they can employ to improve watershed conditions. Identification of potential future projects that landowners would like to do in the basin. As the projects are developed and implemented the water quality and physical habitat will be improved. Exploring opportunities to expand types of tours to include partner projects.		
Deliverables Achieved	TRWC is currently working with partners to develop tours of the basin that highlight TRWC and partners activities. An October tour is planned to highlight rainwater harvesting system for interested residents.		

Project Category: Community Engagement (outreach and education)			
Project Title	Tualatin Basin Training Courses	OWEB Grant #	
Responsible Parties	Partner	Priority	High
Project Description	This project involves partnered training and courses with various Tualatin Basin populations that include providing baseline information, learning about watersheds and watershed practices. Training Courses include spawning survey training and residential landscaping workshops using native plants.	In Council Action Plan	Yes
Key Partners	ODFW, PSU, Clean Water Services, TSWCD, TBPAC		
Limiting Factor(s)	Staff capacity development, Board capacity development, Lack of Knowledge, Training, Knowledge Gaps - Lack of Information		
Original Date	2/23/2017	% Complete	60% - Implementation in progress
Challenges	Recruitment of volunteers and residents to participate in the courses and training and to follow through with data collection activities.		
Opportunities	Recruitment of future TRWC board members and volunteers that will enhance staff and board capacity. Increased number of Tualatin Basin residents who will adapt their behaviors after learning about healthy watershed practices. Recruitment of future watershed advocates. Identification of potential future restoration projects through meeting concerned landowners by informing them about available resources to do restoration work. Learn more about where the salmon are spawning in the basin and encourage them to continue spawning surveying in future years at the same sites.		
Planned Deliverables	Conduct yearly spawning survey trainings. Encourage trained participants to perform spawning surveys. Collect information and photos for TRWC website. Conduct residential landscaping workshops in coordination with our partners. Conduct beaver benefits workshop(s) with our partners.		
Update Date	6/14/2018	% Complete	60% - Implementation in progress
Challenges	Recruitment of volunteers and residents to participate in the courses and training and to follow through with data collection activities.		

<p>Opportunities</p>	<p>Recruitment of future TRWC board members and volunteers that will enhance staff and board capacity. Increased number of Tualatin Basin residents who will adapt their behaviors after learning about healthy watershed practices. Recruitment of future watershed advocates. Identification of potential future restoration projects through meeting concerned landowners by informing them about available resources to do restoration work. Learn more about where the salmon are spawning in the basin and encourage them to continue spawning surveying in future years at the same sites.</p>		
<p>Deliverables Achieved</p>	<p>Tualatin Basin landowners and TRWC volunteers continue to perform spawning surveys in fall 2017 with surveyed results shared with Tualatin Basin surveyors and at a Council meeting. TRWC has requested funding to host a spawning survey training in fall 2018. TRWC continues to support naturescaping, urban beaver and other "best watershed management practices" workshops.</p>		

Project Category: Organizational Development and Management			
Project Title	Council Capacity	OWEB Grant #	212-037
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	The governing body of TRWC is the Steering Committee; it oversees and approves the day-to-day workings of the Council either at its monthly meetings or by emails and phone calls. TRWC will use its biennial council self evaluation to improve TRWC operations. In 2014, Barney Worth was hired to prepare a Marketing and Funding Strategy for TRWC. The committee works to develop partnerships with its stakeholder groups and to increase the level of participation in the three other TRWC committees (Restoration & Enhancement, Issues, and Education & Outreach). These committees were developed to assist with planning and implementation of TRWC Action Plan.	In Council Action Plan	No
Key Partners	TRWC stakeholders, OWEB		
Limiting Factor(s)	Staff capacity development, Board capacity development, Board skill development		
Original Date	2/23/2017	% Complete	60% - Implementation in progress
Challenges	TRWC is a volunteer organization with one paid staff. Most of the stakeholders represent other organizations so there are many demands on their time. Funding is difficult due to competition for funds and lack of resources (personnel) to go after them.		
Opportunities	TRWC increases staff capacity and board capacity through recruitment of stakeholders with skills and interests that matches the needs of TRWC. TRWC forms partnerships with like minded organizations to share resources as well as successes and challenges.		

Planned Deliverables	<p>The Steering Committee (TRWC officers, staff and rotating stakeholder) meets monthly and will implement the results of the November 2016 Council Self Evaluation to continuously improve council performance. The Steering Committee will conduct listening sessions with stakeholders and partners to better align our goals and projects and survey its stakeholders to determine what volunteer opportunities most closely match their interest. The other TRWC committees a) Restoration b) Education c) Issues and d) Capacity Building meet monthly or bi-monthly as needed to meet their goals. The Coordinator and TRWC officers attend workshops and conferences to increase their knowledge and skills. Provide fiscal agent services to entities that share TRWC's mission, but do not have 501 (c)3 status. TRWC insures Washington County Commissioners' support by providing them with yearly TRWC update.</p>		
Update Date	6/14/2018	% Complete	60% - Implementation in progress
Challenges	<p>TRWC is a volunteer organization with one paid staff. Most of the stakeholders represent other organizations so there are many demands on their time. Funding is difficult due to competition for funds and lack of resources (personnel) to go after them.</p>		
Opportunities	<p>TRWC increases staff capacity and board capacity through recruitment of stakeholders with skills and interests that matches the needs of TRWC. TRWC forms partnerships with like minded organizations to share resources as well as successes and challenges.</p>		
Deliverables Achieved	<p>Conducted monthly steering committee meetings; quarterly restoration committee meetings developed future project concepts and education and outreach committees meetings planned and hosted outreach activities and prepared an annual report. TRWC hired an interim transition manager to evaluate results of previously conducted listening sessions and Council self-evaluation to help provide future direction for the Council and evaluated Council financial systems. TRWC Coordinator participated in the CONNECT conference and other educational workshops. TRWC provided fiscal agent services to two community entities. TRWC provided its yearly update to the Washington County Commissioners to insure their support.</p>		

Project Category: Organizational Development and Management			
Project Title	Council Growth	OWEB Grant #	216-037
Responsible Parties	Board Member	Priority	High
Project Description	To develop an organizational and funding strategy that will support an increase in staff.	In Council Action Plan	No
Key Partners	TRWC stakeholders		
Limiting Factor(s)	Staff capacity development, Board capacity development, Board skill development		
Original Date	2/23/2017	% Complete	5-30% - Conceptual/ Planning/ Submitting Grant application
Challenges	TRWC is a volunteer organization with one paid staff. Most of the stakeholders represent other organizations so there are many demands on their time. Funding is difficult due to competition for funds and lack of resources (personnel) to go after them.		
Opportunities	Connect with TRWC stakeholders and new potential funding sources to obtain funding for additional staffing.		
Planned Deliverables	Conduct TRWC Steering Committee retreat that will aid in determining staff needs. Long term funding sources that support additional staff.		
Update Date	6/14/2018	% Complete	60% - Implementation in progress
Challenges	TRWC is a volunteer organization with one paid staff. Most of the stakeholders represent other organizations so there are many demands on their time. Funding is difficult due to competition for funds and lack of resources (personnel) to go after them.		
Opportunities	Connect with TRWC stakeholders and new potential funding sources to obtain funding for additional staffing.		

<p>Deliverables Achieved</p>	<p>Implement transition plan by hiring an executive director and part-time office manager (bookkeeper). During 2019-22, develop a business plan which includes a strategic plan, a programmatic budget, a fund raising plan, and an enhanced communication strategy. Review and update current Council policies and procedures. Seek funding support to identify underserved groups and increase TRWC membership diversity.</p>		
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Project Category: Planning			
Project Title	Tualatin River Watershed place-based water use strategic planning	OWEB Grant #	
Responsible Parties	Coordinator/Executive Director	Priority	Emerging
Project Description	This project will identify current and long range water needs in the Tualatin Basin. Working with State of Oregon agencies and Tualatin River Watershed stakeholders, TRWC will co-sponsor facilitated work sessions. The stakeholder groups will discuss their water needs and challenges resulting in understanding of other stakeholder groups' needs. The creation of trust among stakeholder groups may result in collaborative based water use and needs planning. This is expected to be a model that other basins in Oregon can use.	In Council Action Plan	Yes
Key Partners	Oregon Water Resources, ODA, ODFW, ODEQ, OWEB, Tualatin Basin stakeholders		
Limiting Factor(s)	Staff capacity development, Lack of Knowledge, Knowledge Gaps - Lack of Information		
Original Date	2/23/2017	% Complete	5-30% - Conceptual/ Planning/ Submitting Grant application
Challenges	Interest and participation by Tualatin River watershed stakeholder groups; identifying and securing funding for facilitated work session. Length of time for trust building process to occur among stakeholder groups. Current TRWC staffing doesn't permit for staff to facilitate these work sessions, therefore we will seek funding for a facilitator.		
Opportunities	Greater understanding and collaboration among Tualatin Basin stakeholders in the current and future water uses. Recognition TRWC as a resource and convener of stakeholders to discuss Tualatin Basin water challenges and identify collaborative solutions. This will provide an opportunity for stakeholders to learn about each others resources and needs and the interrelated water quality and quantity needs of the basin.		
Planned Deliverables	Funding for grants is proposed in the budget proposal for the current Oregon legislative session. If funding becomes available, TRWC will apply for a grant to cover the cost of facilities and a facilitator to compile information and facilitate the work sessions. The facilitator will write the necessary reports after the process is complete.		

Update Date	6/14/2018	% Complete	5-30% - Conceptual/Planning/Submitting Grant application
Challenges	Interest and participation by Tualatin River watershed stakeholder groups; identifying and securing funding for facilitated work session. Length of time for trust building process to occur among stakeholder groups. Current TRWC staffing doesn't permit for staff to facilitate these work sessions, therefore we will seek funding for a facilitator.		
Opportunities	Greater understanding and collaboration among Tualatin Basin stakeholders in the current and future water uses. Recognition TRWC as a resource and convener of stakeholders to discuss Tualatin Basin water challenges and identify collaborative solutions. This will provide an opportunity for stakeholders to learn about each others resources and needs and the interrelated water quality and quantity needs of the basin.		
Deliverables Achieved	If funding for the OWRD place-based planning program becomes available, TRWC will apply for a grant to cover facilitation costs.		

Project Category: Planning			
Project Title	Upland Restoration	OWEB Grant #	
Responsible Parties	Coordinator/Executive Director	Priority	Emerging
Project Description	The Tualatin River watershed is an integrated landscape consisting of mountains, hills, and lowlands all interconnected by a pattern of streams that flow toward the Tualatin River. Many of the values of uplands portion of this landscape are vital to the health of the streams that flow through it. These values also sustain the people who live in the watershed. Issues to be addressed are vegetation diversity and density, invasive species, fire hazard and legacy roads.	In Council Action Plan	Yes
Key Partners	Small woodlands owner, NRCS, OSU Extension, ODF, OFRI, SWCD, OWEB, Clean Water Services		
Limiting Factor(s)	Lack of Knowledge, Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics., Knowledge Gaps - Lack of Information		
Original Date	2/23/2017	% Complete	60% - Implementation in progress
Challenges	Identifying upland owners who are interested in and realize the value of doing restoration work. Access to a greater diversity of native plant materials. Limited funding sources for projects.		
Opportunities	Learning what the needs are and potential restoration funding for upland areas. Educating and engaging a broader population of the Tualatin Basin in restoration activities. Potential for additional partnership with agencies and landowners. Increased bio-diversity and habitat on the landscape and reduced erosion will improved water quality and physical habitat for Tualatin Basin following implementation of projects. Projects would serve as demonstration projects to increase awareness and future potential projects.		
Planned Deliverables	Continue to identify resources such as native plants and grant programs which upland owners need to enhance properties. Establish partnerships with potential agencies and organizations to implement this. Project identified in Upper McKay Creek watershed to be funded with BLM money. In 2017 we will be furnishing native plants to four uplands owners for enhancing their properties.		

Update Date	6/14/2018	% Complete	60% - Implementa tion in progress
Challenges	Identifying upland owners who are interested in and realize the value of doing restoration work. Access to a greater diversity of native plant materials. Limited funding sources for projects.		
Opportunities	Learning what the needs are and potential restoration funding for upland areas. Educating and engaging a broader population of the Tualatin Basin in restoration activities. Potential for additional partnership with agencies and landowners. Increased bio-diversity and habitat on the landscape and reduced erosion will improved water quality and physical habitat for Tualatin Basin following implementation of projects. Projects would serve as demonstration projects to increase awareness and future potential projects.		
Deliverables Achieved	Continue to identify resources such as native plants and grant programs which upland owners need to enhance properties. TRWC provided approximately 200 native plants to four upland owners for their enhancement projects.		

Project Category: Restoration			
Project Title	Bonita Townhomes Natural Area Enhancement	OWEB Grant #	13-16-004
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	This project will control non-native invasives and install natives on 2.6 acres in the Fanno Watershed.	In Council Action Plan	Yes
Key Partners	City of Tigard, Clean Water Services, Bonita Townhomes HOA, Friends of Trees		
Limiting Factor(s)	Lack of Knowledge, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	60% - Implementation in progress
Challenges	Timing of busy contractors and community volunteers and others to coordinate implementation of work. Site access had to be obtained by getting an easement from an adjacent landowners to allow contractor to treat and remove invasive Hawthorn trees. This may be a challenge for doing the native planting with community volunteers. The amount of invasive Hawthorn trees required additional contractor time.		
Opportunities	Involvement of HOA members and community volunteers in planting native plants and site maintenance. Greater understanding by HOA members and community volunteers of stream and natural resources process. The project will provide improved physical habitat and water quality in the stream reach. This will be new opportunity for the Friends of Trees to work directly with TRWC.		
Planned Deliverables	This project is located on mainstem Fanno and its tributary Colony Creek. Removal and treatment of invasive plants will happen up to 4 times throughout the grant term. Contracted crews and community volunteers will plant up to 6,360 native plants on 2.6 acres along 0.05 miles of stream. Grant term ends October 2017 with report and documentation due December 2017.		
Update Date	6/13/2018	% Complete	95% - Maintenance/Monitoring/Education

Challenges	Timing of busy contractors and community volunteers and others to coordinate implementation of work. Site access had to be obtained by getting an easement from an adjacent landowners to allow contractor to treat and remove invasive Hawthorn trees. This may be a challenge for doing the native planting with community volunteers. The amount of invasive Hawthorn trees required additional contractor time.		
Opportunities	Involvement of HOA members and community volunteers in planting native plants and site maintenance. Greater understanding by HOA members and community volunteers of stream and natural resources process. The project will provide improved physical habitat and water quality in the stream reach. This will be new opportunity for the Friends of Trees to work directly with TRWC.		
Deliverables Achieved	The project treated and retreated invasive plant species such as English ivy, English hawthorn, bird cherry, Himalayan blackberry, reed canary grass and other invasive plant species in the riparian and upland areas. Volunteers coordinated through Friends of Trees planted a total of 2260 native plants with contracted crews planting 4610 native plants, totaling 6870 on the 2.6 acre project area. Maintenance and monitoring is being overseen by a TRWC partner, Clean Water Services, and in-fill plantings may occur in project areas as needed. The native plants are growing.		

Project Category: Restoration			
Project Title	Carter Creek Restoration Project II	OWEB Grant #	13-16-005
Responsible Parties	Partner	Priority	High
Project Description	This project will treat invasive species and plant 1,500 native trees and shrubs and install 200 live stakes on this 1.7 acre site in the Carter Creek Watershed.	In Council Action Plan	No
Key Partners	SOLVE, TRWC, Clean Water Services, NORP		
Limiting Factor(s)	Staff capacity development, Lack of Knowledge, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	60% - Implementation in progress
Challenges	Timing between invasive plant removal and availability/recruitment of community volunteers and others to plant and mulch and native plants.		
Opportunities	Involvement of community volunteers in planting and mulching of native plants. Greater understanding by community volunteers of stream and natural resource processes.		
Planned Deliverables	Work on 0.3 miles of stream in 1.0 acres of riparian land plus 0.6 acres of uplands and 0.1 acres of wetlands. Ongoing removal and treatment of invasive species by community volunteers and contractors. Planting and mulching of 1,500 native trees and shrubs and installation of 200 live stakes by community volunteers. Work to date includes invasive plant removal and treatment by contracted crews and licensed applicator and volunteers. Grant ends October 2017 with report and documentation due December 2017.		
Update Date	6/13/2018	% Complete	95% - Maintenance/Monitoring/Education
Challenges	Timing between invasive plant removal and availability/recruitment of community volunteers and others to plant and mulch and native plants. The change in management staff of a landowner entity requires relationship building and reinforcing the value of the enhancement activities to the landowner, surrounding business entity volunteers and the community.		

Opportunities	Involvement of community volunteers in planting and mulching of native plants. Greater understanding by community volunteers of stream and natural resource processes.		
Deliverables Achieved	The project removed, treated and retreated invasive plants such as Himalayan blackberry, Scotch broom and English hawthorn on the 1.7 acre project that included riparian, uplands and wetland habitats. Treatment limited spot spray and contracted crew that manually cut and dug out these species. Community volunteers planted a total of 1775 native trees and shrubs. DigIn Community and TRWC provided information to the community volunteers on the Carter Creek watershed, functions and best practices to improve watershed conditions.		

Project Category: Restoration			
Project Title	Clackamas County riparian enhancement activities	OWEB Grant #	
Responsible Parties	Contractor	Priority	High
Project Description	This project will increase native vegetation in a riparian area of the Tualatin River located in Rivergrove, maintain native plant density on a Borland Road area and plant native trees along Lower Rock Creek on private lands.	In Council Action Plan	Yes
Key Partners	Clackamas County Water Environmental Services, private landowners, Habitat Restoration NW		
Limiting Factor(s)	Staff capacity development, Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality - Altered physical, chemical, or biological water characteristics.		
Original Date	6/14/2018	% Complete	60% - Implementation in progress
Challenges	Timing between availability of busy contractor, community volunteers and others to implement the enhancement and maintenance work. Having a contracted project manager has provided TRWC to head up and participate in more enhancement activities.		
Opportunities	Having a contracted project manager has expanded our staff capacity. Working with private landowners in Rivergrove and along Lower Rock Creek provides greater understanding of stream and natural resources processes by the landowners, students, and community volunteers. Once the project is implemented, water quality and physical habitat will be improved. Working with Clackamas County Water Environmental Services also provides a new partnership and opportunity to work with Clackamas residents who live in the Tualatin Basin.		
Planned Deliverables	The project will A) remove invasive plants on publicly owned and private lands along the Tualatin River in Rivergrove; engage up to 30 students from a local school to assist with plantings and mulching; continue maintenance of the site through 2020. B) treat invasive weeds in the Borland Road area to maintain a dense native canopy for bio-diversity and riparian health. C) Partner with one or more private Lower Rock Creek landowner(s) to install native plants with community volunteers in riparian areas and maintain through 2020.		

Project Category: Restoration			
Project Title	Clear Creek Large Wood Placement Project	OWEB Grant #	211-3050
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	The project is located on a one-mile stream reach of Clear Creek, a tributary to Gales Creek. The majority of the subwatershed is owned and managed by the City of Forest Grove for municipal water supply and sustainable forestry. Watershed problems include: 1) lack of channel complexity and rearing habitat (pools) for spawning native winter steelhead trout, non-native Coho salmon, Pacific lamprey, and other native fish; 2) a barrier to juvenile fish passage due to an obsolete concrete water gauging structure, and 3) lack of instream structure for migratory adult fish to more easily access the Clear Creek fish ladder at intake structure. The proposed solution is to: 1) place up to 86 logs and/or whole trees in the stream to create pools and scour for fish habitat; 2) remove the obsolete water gauging structure; and 3) develop a small graded riffle at the intake structure for migrating fish. Following construction, Rapid Bioassessments (RBA) will be performed to evaluate fish passage.	In Council Action Plan	Yes
Key Partners	City of Forest Grove, ODFW, Trout Mountain Forestry OWEB, Bio-Surveys, LLC		
Limiting Factor(s)	Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	95% - Maintenance/Monitoring/Education
Challenges	Availability of transportation equipment to move logs to staging areas in order for the project to be implemented within the time period scheduled by the contractor; completing work within the in-water work period. These challenges did not prevent the project from being completed in a timely manner.		
Opportunities	The project improved habitat and habitat access and water quality in this stream reach. Build partnership for future restoration projects with the City of Forest Grove and downstream Clear Creek residents through tours and understanding of mutual benefits through large wood placement and other projects.		

Planned Deliverables	Project work complete with all objectives met. Pacific University students filmed a video showing the results of the project. TRWC plans to put the video on its website in the future. Project completion report submitted March 2015. Fall 2016 Rapid Bio-assessment completed; fall 2017 rapid bio-assessment planned for trends monitoring. Monitoring reports due in 2017 and 2019.		
Update Date	6/14/2018	% Complete	95% - Maintenance/Monitoring/Education
Challenges	Availability of transportation equipment to move logs to staging areas in order for the project to be implemented within the time period scheduled by the contractor; completing work within the in-water work period. These challenges did not prevent the project from being completed in a timely manner.		
Opportunities	The project improved habitat and habitat access and water quality in this stream reach. Build partnership for future restoration projects with the City of Forest Grove and downstream Clear Creek residents through tours and understanding of mutual benefits through large wood placement and other projects.		
Deliverables Achieved	TRWC continues to perform annual photo-point monitoring of the project activities and fund trends monitoring of the treatment reach. An August 2017 trends monitoring rapid bio-assessment and reports showed steadily increasing numbers of winter steelhead trout, Coho salmon and cut-throat trout throughout the project following a decrease in numbers from the 2016 trends monitoring.		

Project Category: Restoration			
Project Title	EF Dairy Large Wood Placement project	OWEB Grant #	218-3026-16031
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	<p>The project is located on an East Fork Dairy Creek stream reach between river mile 12.96 and 15.96. East Fork Dairy Creek drains 58.9 square acres and following its confluence with West Fork Dairy and McKay Creeks flows into the Tualatin River at river mile 45. North Plains located in Washington County is the closest town to the project. The 2013-14 Tualatin Basin rapid bio-assessment surveys identified a six mile stream reach located on the main stem of East Fork Dairy Creek as having the large percentage of all salmon documented in the Tualatin Basin. This stream reach lacks floodplain connectivity needed for essential winter habitat refugia, though it provides high quality incubation and summer rearing habitat.</p> <p>The project will address the lack of large wood required for developing and sustaining off channel connectivity; increase the availability of shade for temperature maintenance; and provide conifer for long term wood recruitment to the active channel. The proposed project work will include i) placing large wood debris in main stem, tributary and side channel reaches to increase in stream complexity and floodplain linkage; and ii) treating invasive plant species on and installing native plants on seven project properties that will result in future large wood recruitment and canopy closure. Project partners include seven private landowners and the Tualatin Soil and Water Conservation District.</p>	In Council Action Plan	Yes
Key Partners	Tualatin SWCD, private landowners, Bio-Surveys, Trask Design & Construction, OWEB		
Limiting Factor(s)	Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	6/15/2018	% Complete	30% - Funding secured
Challenges	Challenges include coordination with seven private landowners, a variety of permitting agencies and busy contractors to be able to implement aquatic enhancement activities during the 2018 in-water work period.		

<p>Opportunities</p>	<p>Opportunities include improvement of winter refugia habitat in a three mile stream reach of East Fork Dairy Creek through placing large wood in the main stem, tributary and side channels reaches to increase in-stream complexity and floodplain linkage; and treating invasive plant species on and installing native plants on seven project properties that will result in future large wood recruitment and canopy closures. Following implementation, opportunities exist to provide tours of the project in order to recruit downstream landowners to participate in a future downstream phased project and share knowledge and best watershed management practices to improve watershed health and fish and wildlife habitat.</p>		
<p>Planned Deliverables</p>	<p>The project deliverables include installation of up to 58 large wood structures on the main stem of East Fork Dairy Creek, tributaries and its side channels to aggrade the active channel in order to deepen and narrow the thalweg and link legacy side channel habitat at a higher frequency; enhance six alcoves for off-channel habitat that result in linked alcoves to provide lower velocity winter habitat; treat and/or site prep 41 acres of riparian forest habitat and two acres of scrub-shrub habitat and install native vegetation on 29.3 acres of one project property; backwater a perched culvert on Plentywater Creek to enhance both adult and juvenile passage to upstream habitat; and change pasture management practices of grazing livestock in current locations on one project property and install a bio-revetment to address a 200 feet segment of failing stream bank located on the main stem of East Fork Dairy Creek.</p>		

Project Category: Restoration			
Project Title	Gales Creek Clear Creek Confluence Project	OWEB Grant #	217-3009
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	To reconnect hyporheic and ground water flows to an extensive network of side channels located at the confluence, the project will reintroduce peak winter flows into a network of well integrated side channels by modifying an existing upstream dike. Large wood structures placed in this network will create pool scour that can be accessed in the summer by temperature dependent summer migrants.	In Council Action Plan	Yes
Key Partners	Bureau of Reclamation, Clean Water Services, 3 Landowners, ODFW, OWEB		
Limiting Factor(s)	Habitat Access - Impaired access to habitat, Hydrograph/water quantity - Altered hydrology, Physical habitat quality - Altered quality of physical habitat, Water Quality - Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	30% - Funding secured
Challenges	Obtaining funding from multiple sources during a timeframe that allows the implementation of the project. Obtain permits in a timely manner to allow implementation during 2017 in-water work period.		
Opportunities	The monitoring will give us more information about the movement of hyporheic and ground water flows and the impact it has on temperature in side channels attached to Gales Creek.		
Planned Deliverables	To increase the amount of cold-water habitat for juvenile salmon during critical low flow periods during the summer. To monitor the impact of increased hyporheic flow on cold water. Increase sinuosity main stem Gales Creek through placement of large wood structures. Improve water quality through removal of legacy garbage dump on mainstem Gales Creek. Increase coniferous wood for future wood recruitment for the flood plain.		
Update Date	6/14/2018	% Complete	60% - Implementation in progress

Challenges	Obtaining funding from multiple sources during a timeframe that allows the implementation of the project. Obtain permits in a timely manner to allow implementation during 2017 in-water work period.		
Opportunities	The monitoring will give us more information about the movement of hyporheic and ground water flows and the impact it has on temperature in side channels attached to Gales Creek.		
Deliverables Achieved	Needed permits obtained for project implementation including Washington County Land Use floodplain alteration permit type II; Washington County Bldg. grading permit; Division of State Lands removal/fill permit; Army Corps of Engineers authorization (based on required NMFS/NOAA concurrence letter, Section 106, etc.); and DEQ 401 water quality certification. Project materials such as logs and culvert obtained. Project implementation to occur during the in-water work period of 2018. Approximately one year of pre-project (baseline) monitoring obtained.		

Project Category: Restoration			
Project Title	Little Beaver Creek Culvert Replacements	OWEB Grant #	13-16-010
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	Little Beaver Creek is a tributary of Gales Creek. The grant will replace one culvert crossing that will provide fish passage and greater sustainability for high water events.	In Council Action Plan	Yes
Key Partners	Maier Family, Joint Water Commission, ODFW		
Limiting Factor(s)	Habitat Access - Impaired access to habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	60% - Implementation in progress
Challenges	Timing between availability of busy contractor to remove damaged culvert and replace with fish passage friendly culvert during in-water work period. Timing of fish salvage to meet needs of the project.		
Opportunities	Greater understanding by landowners of stream and natural resource processes. Potential to participate in floodplain enhancement in the future to provide stream canopy (lower stream temperatures) and sediment capture. Potential to do tour to recruit neighbors on Little Beaver Creek to do riparian area projects.		
Planned Deliverables	Current fish passage impediment will be removed and replaced with a fish friendly culvert. Decrease of sediment input to stream from damaged culvert. Up to 300 native plants will be planted in the disturbed area of the culvert crossing.		
Update Date	6/13/2018	% Complete	95% - Maintenance/Monitoring/Education
Challenges	Timing between availability of busy contractor to remove damaged culvert and replace with fish passage friendly culvert during in-water work period. Timing of fish salvage to meet needs of the project.		

<p>Opportunities</p>	<p>Greater understanding by landowners of stream and natural resource processes. Potential to participate in floodplain enhancement in the future to provide stream canopy (lower stream temperatures) and sediment capture. Potential to do tour to recruit neighbors on Little Beaver Creek to do riparian area projects.</p>		
<p>Deliverables Achieved</p>	<p>The project removed damaged and undersized double barrel culverts and replaced the crossing with an 8.5' oval culvert that provides upstream fish passage for native cut-throat trout and reducing sediment release to the stream. Disturbed areas of the stream were reseeded in fall 2016 and covered with straw. The installed culvert continues to handle stream flows without problems. Cascade Environmental Corps, a contracted crew, installed approximately 175 bare root plants in disturbed areas in March 2017. The native plants are growing.</p>		

Project Category: Restoration			
Project Title	Main Stem Carter Creek Enhancement Project	OWEB Grant #	
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	The project will enhance six acres that includes wetlands, uplands and riparian areas and 0.66 miles of stream frontage of Carter Creek. This partnered project will include private landowners, professional contractors as well as community volunteers from adjacent office park locations and students from Lake Oswego schools.	In Council Action Plan	Yes
Key Partners	City of Lake Oswego, DigIn Community, Meadows Road LLC, Fairfield Marriott, Lake Oswego schools		
Limiting Factor(s)	Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	6/15/2018	% Complete	60% - Implementation in progress
Challenges	Challenges will include busy partner organizations scheduling site prep and maintenance activities as well as scheduling with community volunteers and school classes to participate in onsite enhancement activities.		
Opportunities	Opportunities include working with Lake Oswego students and adjacent office park volunteers to participate in "hands-on" enhancement activities that will lead to understanding watershed and natural resources processes and the best watershed management practices to address watershed challenges. The site is located in a Lake Oswego urban office park site, so it provides an opportunity for the public to observe the ongoing enhancement work and its results.		
Planned Deliverables	This project will remove invasive plant species such as Himalayan blackberry, reed canary grass, Scotch broom, clematis, English ivy and English hawthorn throughout the project site with some site prep being performed by a contractor. Community volunteers and Lake Oswego school students will perform some of the site prep and over three years plant and mulch native plants to establish a minimum of 1600 stems per acre. Up to 75 students yearly will be involved in an environmental learning project that includes site assessment, invasive plant identification, enhancement activities and ongoing maintenance and monitoring. Years four and five of the project will focus on maintenance and monitoring of the enhancement activities.		

Project Category: Restoration			
Project Title	North Johnson Creek Tributary Enhancement	OWEB Grant #	13-18-005
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	The 1.5 acre project site is a natural areas located along degraded tributaries of North Johnson Creek owned by a private school and medical complex. The project will employ contracted crews for site preparation to remove invasive plants (cherry, holly, English ivy, English hawthorn) with community volunteers (students, neighbors and others) removing English ivy, planting native plants and mulching installed plants. The project will improve filtration functions, lower stream temperatures and increase bio-diversity.	In Council Action Plan	Yes
Key Partners	Catlin Gabel School, Providence St Vincent's Medical Center, Habitat Restoration NW, OWEB, CWS		
Limiting Factor(s)	Staff capacity development, Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality - Altered physical, chemical, or biological water characteristics.		
Original Date	6/14/2018	% Complete	60% - Implementation in progress
Challenges	Timing between availability of busy contractor, landowner grounds staff, crew and community volunteers and others to implement work. Having a contracted project manager will help the coordination of these activities.		
Opportunities	Having a contracted project manager has expanded our staff capacity. Involvement of landowners' ground staff, and community volunteers and students in planting native plants and ongoing site maintenance will increase understanding of stream and natural resources processes. Once the project is implemented and the habitat access, water quality and physical habitat will be improved.		

<p>Planned Deliverables</p>	<p>The project will treat invasive plant species such as Himalayan blackberry, bird cherry, English hawthorn, English holly and ivy on approximately 1.5 acres of this natural area. Approximately 1800 native plants will be installed by community volunteers (students, neighbors and others) and contracted crews. Working with community volunteers will result in greater understanding of stream and natural resource processes. The project will result in approximately 1200 stems per acre because of the current native vegetation onsite and increase filtration, lower stream temperatures and provide greater bio-diversity.</p>		
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Project Category: Restoration			
Project Title	Ongoing native plantings and maintenance at Rippling Waters	OWEB Grant #	
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	This project is located at Rippling Waters, a 21 acre Washington County owned natural area on the main stem of Gales Creek. TRWC has been restoring the site, using contracted crews for site preparation and maintenance activities (spraying and mowing) and community volunteers for invasive plant removal and planting activities since 2005. Over the next several years, TRWC will continue its site maintenance on previously planted areas. In 2014 our contractor developed a planting plan for 14 areas. These areas are going to be prepared for planting over the next few years.	In Council Action Plan	No
Key Partners	Bureau of Reclamation, OWEB, Washington County, Clean Water Services, NW OR Restoration Partnership,		
Limiting Factor(s)	Staff capacity development, Lack of Knowledge, Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	60% - Implementation in progress
Challenges	Completion of site preparation for native planting during appropriate times. Recruitment of community volunteers for planting activities. Staff availability for oversight of all these activities.		
Opportunities	Recruitment of Pacific University students to recruit volunteers, plan planting activities, and oversee the work. This will enhance staff capacity. Increased community volunteer knowledge about natural resource systems, identification of native plants and emerging invasive plant species. Future use of the site as an example of restoration activities. As the planting are implemented habitat access, water quality and physical habitat will be improved.		
Planned Deliverables	Continued maintenance and monitoring for 2016 plantings of approximately 3,000 native plants on approximately one acre to enhance source water protection. This work was funded through a grant from Joint Water Commission. City of Hillsboro employees and Joint Water Commission employees volunteered for several planting days. Ongoing maintenance will be paid by a BOR grant and plantings will be by volunteers.		

Update Date	6/14/2018	% Complete	60% - Implementa tion in progress
Challenges	Completion of site preparation for native planting during appropriate times. Recruitment of community volunteers for planting activities. Staff availability for oversight of all these activities.		
Opportunities	Recruitment of Pacific University students to recruit volunteers, plan planting activities, and oversee the work. This will enhance staff capacity. Increased community volunteer knowledge about natural resource systems, identification of native plants and emerging invasive plant species. Future use of the site as an example of restoration activities. As the planting are implemented habitat access, water quality and physical habitat will be improved.		
Deliverables Achieved	Ongoing maintenance and monitoring continues in the previously planted and maintained areas of the project site. Native vegetation is growing and the riparian one acre site intensely treated and planted has responded well with native forbs re-emerging.		

Project Category: Restoration			
Project Title	Quail Hollow West HOA Enhancement	OWEB Grant #	13-14-006
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	This project will address issues caused by urbanization and its increased amount of impervious surfaces that contribute to more surface water runoff (which can carry pollutants from roads and lawns), more channel erosion and higher sediment loads which lead to poor water quality and degraded terrestrial habitat. This 2.32 acre riparian and upland HOA-owned site is located along an unnamed tributary of Summer Creek. It will be treated for invasive species such as Himalayan blackberry, bindweed, Reed canary grass and English ivy and planted to develop a dense native herbaceous layer and include deep-rooted native shrubs to reduce the velocity of storm water runoff and stabilize the stream banks. Additionally, native trees such as Western red cedar, Douglas fir, red alder and big leaf maple will be planted create better habitat and shade the stream.	In Council Action Plan	Yes
Key Partners	Quail Hollow West HOA, City of Tigard, Clean Water Services, OWEB		
Limiting Factor(s)	Lack of Knowledge, Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	95% - Maintenance/Monitoring/Education
Challenges	Timing between availability of busy contractor to get the site prep and planting done at the best time for the plants. By grouping projects together it was efficient for our contractor to work them into his schedule so that the timing for planting worked out well.		
Opportunities	Greater understanding by Homeowners Association (HOA) members and community volunteers of stream and natural resource process. Use of site for future tours for other HOAs to initiate restoration on their HOA-owned natural areas. As the project is implemented the habitat access, water quality and physical habitat will be improved		
Planned Deliverables	A total of 0.12 miles of stream on 2.32 acres were treated by contracted crews four times during the grant term for invasive plants. Contracted crews planted 5,500 native plants. On going monitoring and maintenance is being done with post plant establishment grant funds and homeowners' association fees. The completion report was submitted in November 2015 and the two-year report will be due in November 2017.		

Update Date	6/13/2018	% Complete	100% - Post grant reporting complete
Challenges	Timing between availability of busy contractor to get the site prep and planting done at the best time for the plants. By grouping projects together it was efficient for our contractor to work them into his schedule so that the timing for planting worked out well.		
Opportunities	Greater understanding by Homeowners Association (HOA) members and community volunteers of stream and natural resource process. Use of site for future tours for other HOAs to initiate restoration on their HOA-owned natural areas. As the project is implemented the habitat access, water quality and physical habitat will be improved		
Deliverables Achieved	The original restoration work occurred between 2013-15 and included treatment and re-treatment of invasive plant species on the 2.32 riparian acre project site. Contracted crews planted 6150 native plants in the winter/spring of 2015. The native plants continue to grow and in areas where invasive species have been treated, there continues to be a resurgence of native plants, most noticeably native ferns and forbs whose seeds were dormant in the soil. Maintenance activities, spot sprays, were continued by contractors and will continue as needed. Quail Hollow West HOA residents are pleased with the results of enhancement project and look forward to the ongoing maturing of the native plants that increase the bird species and other wildlife using this natural area.		

Project Category: Restoration			
Project Title	Rock Creek Forest Restoration - Varma II	OWEB Grant #	13-16-006
Responsible Parties	Project Manager	Priority	High
Project Description	Small Grant Program funds will be used to accelerate forest restoration through a concentrated effort of plant control and native planting on 1.1 acres and 0.12 stream miles near the headwaters of South Rock Creek in Clackamas County of the Tualatin River watershed.	In Council Action Plan	Yes
Key Partners	TRWC, Our Table, Clean Water Services, Community by Design, CREST High School, NORP		
Limiting Factor(s)	Staff capacity development, Lack of Knowledge, Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	60% - Implementation in progress
Challenges	Timing between availability of busy contractor, farm crew and community volunteers and others to implement work. Having a project manager has really helped with this.		
Opportunities	Having a project manager has expanded our staff capacity. Involvement of Our Table Community Sustainable Agriculture (CSA) members and farmers, and community volunteers in planting native plants and ongoing site maintenance including use of mechanical treatment of invasive plants. Greater understanding by Our Table members and community volunteers(high school students) of stream and natural resource process. Once the project is implemented and the habitat access, water quality and physical habitat will be improved.		
Planned Deliverables	Enhance and establish a riparian forest along 0.12 stream miles on 1.1 acres of Lower Rock Creek. Do high density planting and mulching of 3,200 plants to reduce long term maintenance and provide shade more quickly. High school students will be included with community volunteers to learn about riparian restoration. This grant ends on October 2017 with the final report and documentation due December 2017.		
Update Date	6/13/2018	% Complete	95% - Maintenance/Monitoring/Education

Challenges	Timing between availability of busy contractor, farm crew and community volunteers and others to implement work. Having a project manager has really helped with this.		
Opportunities	Having a project manager has expanded our staff capacity. Involvement of Our Table Community Sustainable Agriculture (CSA) members and farmers, and community volunteers in planting native plants and ongoing site maintenance including use of mechanical treatment of invasive plants. Greater understanding by Our Table members and community volunteers (high school students) of stream and natural resource process. Once the project is implemented and the habitat access, water quality and physical habitat will be improved.		
Deliverables Achieved	The project treated invasive plants such as Himalayan blackberry, reed canary grass and other invasive species mechanically on 1.1 acres. It established approximately 1600 stems through mulching rows in reed canary grass and then planting trees and shrubs in the floodplain. The plantings were maintained through cutting grass and encroaching blackberries and replanted as needed and re-mulched using both contract and farm crews. The project is now in a maintenance and monitoring phase. Originally the plan was to establish 2000 stems per acre, but due to beaver predation, it was reduced to approximately 1600 stems per acre.		

Project Category: Restoration			
Project Title	Rock Creek Forest Restoration III	OWEB Grant #	13-18-001
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	The project site is located on Lower Rock Creek. It will treat invasive weeds mechanically on a one acre riparian area. Crews and volunteers will plant and establish a 1600 native plants per acre to create a diverse canopy and shrub layer to improve pollination and benefit wildlife. Community volunteers and students will be involved with the enhancement activities and learn about watershed processes and enhancement practices.	In Council Action Plan	Yes
Key Partners	Our Table Farm, Communities by Design (landowner), Habitat Restoration NW, community volunteers, OWE		
Limiting Factor(s)	Staff capacity development, Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality - Altered physical, chemical, or biological water characteristics.		
Original Date	6/14/2018	% Complete	60% - Implementation in progress
Challenges	Timing between availability of busy contractor, farm crew and community volunteers and others to implement work. Having a contracted project manager has enabled TRWC to partner on more enhancement activities.		
Opportunities	Having a contracted project manager has expanded our staff capacity. Involvement of Our Table Community Sustainable Agriculture (CSA) members and farmers, and community volunteers in planting native plants and ongoing site maintenance will result in greater understanding of stream and natural resource processes. Once the project is implemented, water quality and physical habitat will be improved.		
Planned Deliverables	Project activities include mechanical cutting and grubbing of Himalayan blackberry, reed canary grass and other invasive plants on the one acre site. Crews and volunteers will install up to 1600 native plants to create a dense canopy to create shade quickly. Engage with up to 30 volunteers to assist with enhancement activities and expand partnerships to improve riparian conditions along Lower Rock Creek.		

Project Category: Restoration			
Project Title	Rock Creek Forest Restoration: Varma	OWEB Grant #	13-14-007
Responsible Parties	Contractor	Priority	High
Project Description	This project will restore native vegetation and habitat in the riparian area on this property belonging to Our Table organic farm near the headwaters of South Rock Creek in the Lower Tualatin River Basin. Implementation will establish a continuous riparian forest along 450 feet of stream and develop a diverse forest canopy and shrub layer to improve pollination and benefit wildlife. Native trees and shrubs will be planted on 0.8 acres of floodplain and in the upland forest areas after treatment of invasive weeds.	In Council Action Plan	Yes
Key Partners	Community by Design, LLC, OWEB, community volunteers, Habitat Restoration NW, LLC		
Limiting Factor(s)	Staff capacity development, Lack of Knowledge, Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	95% - Maintenance/Monitoring/Education
Challenges	Timing between availability of busy contractor, farm crew and community volunteers and others to implement work. Having a project manager has really helped with this.		
Opportunities	Having a project manager has expanded our staff capacity. Involvement of Our Table Community Sustainable Agriculture (CSA) members and farmers, and community volunteers in planting native plants and ongoing site maintenance including use of mechanical treatment of invasive plants. Greater understanding by Our Table members and community volunteers of stream and natural resource process. Once the project is implemented and the habitat access, water quality and physical habitat will be improved.		
Planned Deliverables	We treated 0.8 riparian acres and 1.2 upland acres on 0.1 miles of stream. Contracted crews mechanically removed invasive species since it is an bio-dynamic farm and chemicals are not allowed. This needed to be done repeatedly. Contracted crews and volunteers planted 2,075 native plants (150 volunteer hours). The volunteers were from local high schools. The students learned about bio-diversity, native plants and the environment. The completion report was submitted December 2015. On going monitoring and maintenance are being done with post project plant establishment funding. The two year report is due December 2017.		

Update Date	6/13/2018	% Complete	100% - Post grant reporting complete
Challenges	Timing between availability of busy contractor, farm crew and community volunteers and others to implement work. Having a project manager has really helped with this.		
Opportunities	Having a project manager has expanded our staff capacity. Involvement of Our Table Community Sustainable Agriculture (CSA) members and farmers, and community volunteers in planting native plants and ongoing site maintenance including use of mechanical treatment of invasive plants. Greater understanding by Our Table members and community volunteers of stream and natural resource process. Once the project is implemented and the habitat access, water quality and physical habitat will be improved.		
Deliverables Achieved	The riparian forest is growing well on the two acres on which approximately 2075 native trees and shrubs were planted between 2013-2015. The willows and alders have taped into the high water table and are growing rapidly, in some cases between 12-20 feet tall. Understory shrubs are thriving and in thicker reed canary grass they are growing more slowly. The project site is located on an organically certified farm, so the maintenance is performed mechanically without chemical use. Crews and volunteers have monitored and maintained the site with scalping, mulching and mowing to help native trees and vegetation to be become established; in addition, trees have been fenced because of the return of a resident beaver population in the stream system. The beaver dams are slowly filling incised stream bank areas with sediment.		

Project Category: Restoration			
Project Title	Summer Creek Headwaters Enhancement II	OWEB Grant #	13-16-001
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	This project will treat invasive plants along Summer Creek in Washington County on a 16.5 acre site (12 acres of riparian area, 4.5 of uplands). Following invasive treatment, 3,500 native plants will be installed throughout the site.	In Council Action Plan	Yes
Key Partners	City of Beaverton, Clean Water Services, Murrayhill Owners Association, Friends of Trees		
Limiting Factor(s)	Lack of Knowledge, Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	60% - Implementation in progress
Challenges	Timing between availability of busy contractor and community volunteers and others to implement work can be difficult. By grouping projects together it was efficient for our contractor to work them into his schedule so that the timing for volunteer planting worked out well		
Opportunities	Involvement of Murrayhill Owners Association (MOA) members and community volunteers in planting native plants and ongoing site maintenance. Greater understanding by MOA members and community volunteers of stream and natural resource process. Use of site for future tours for other HOAs to initiate restoration on their HOA-owned natural areas. As the projects are developed and implemented the habitat access, water quality and physical habitat will be improved.		
Planned Deliverables	Four invasive treatments by contracted crews between fall 2015 and fall 2017. 3,950 native plants will be installed and mulched by volunteers and Cascade Environmental Corp in fall 2016 and winter 2017. A project partner sign will be installed. Grant completion date is October 2017 with the report and documentation due December 2017.		
Update Date	6/13/2018	% Complete	95% - Maintenance/Monitoring/Education

Challenges	Timing between availability of busy contractor and community volunteers and others to implement work can be difficult. By grouping projects together it was efficient for our contractor to work them into his schedule so that the timing for volunteer planting worked out well.		
Opportunities	Involvement of Murrayhill Owners Association (MOA) members and community volunteers in planting native plants and ongoing site maintenance. Greater understanding by MOA members and community volunteers of stream and natural resource process. Use of site for future tours for other HOAs to initiate restoration on their HOA-owned natural areas. As the projects are developed and implemented the habitat access, water quality and physical habitat will be improved.		
Deliverables Achieved	The project work included treatments and removal of invasive plant species such as Himalayan blackberry, English ivy, English holly and invasive trees such as English hawthorn and bird cherry on 2.7 acres of riparian habitat. Volunteers planted 300 native plants on the lower site in October 2016, with contracted crews planting 4520 native plants during 2017 in the upper and lower sites. There was a change in the anticipated project acreage, 16.5 acres, to be treated and planted. Once the enhancement work started it was found that the “upper” natural area had a well established native plant population and canopy with little or no invasive plants, so as a result, the focus concentrated on treating and planting the 2.7 acres, which was primarily the lower section, but also a very small acreage of the upper section		

Project Category: Restoration			
Project Title	Summer Creek Headwaters Restoration at Murrayhill	OWEB Grant #	13-14-005
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	This 8.4 acre natural area project site along Summer Creek will be treated for invasive plant species including Himalayan blackberry, English ivy, English hawthorn, and English holly. These plants impact water quality through poor filtration and erosion, negatively impact wildlife habitat in the greenway that runs through the site and are a source of invasive seed that impact restoration downstream. Treatments will be followed by planting approximately 3,000 native plants.	In Council Action Plan	Yes
Key Partners	Murrayhill Owners Association, Clean Water Services, OWEB, City of Beaverton		
Limiting Factor(s)	Lack of Knowledge, Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	95% - Maintenance/Monitoring/Education
Challenges	Timing between availability of busy contractor and community volunteers and others to implement work can be difficult. By grouping projects together it was efficient for our contractor to work them into his schedule so that the timing for volunteer planting worked out well.		
Opportunities	Involvement of Murrayhill Owners Association (MOA) members and community volunteers in planting native plants and ongoing site maintenance. Greater understanding by MOA members and community volunteers of stream and natural resource process. Use of site for future tours for other HOAs to initiate restoration on their HOA-owned natural areas. As the projects are developed and implemented the habitat access, water quality and physical habitat will be improved.		

Planned Deliverables	Project completion report submitted in November 2015, two-year report is due November 2017. Two project partner signs installed fall of 2015. Ongoing monitoring and maintenance by the Murrayhill Owners Association. Project Results: 3,950 native plants were installed by community volunteers and residence (495 volunteer hours) and Cascade Environmental Corp on 0.54 stream miles and 8.4 acres. Four invasive treatments were done by contracted crews. This project lead to a second enhancement project (on land owned by the Murrayhill Owners Association) along one of the headwater streams of Summer Creek.		
Update Date	6/13/2018	% Complete	100% - Post grant reporting complete
Challenges	Timing between availability of busy contractor and community volunteers and others to implement work can be difficult. By grouping projects together it was efficient for our contractor to work them into his schedule so that the timing for volunteer planting worked out well.		
Opportunities	Involvement of Murrayhill Owners Association (MOA) members and community volunteers in planting native plants and ongoing site maintenance. Greater understanding by MOA members and community volunteers of stream and natural resource process. Use of site for future tours for other HOAs to initiate restoration on their HOA-owned natural areas. As the projects are developed and implemented the habitat access, water quality and physical habitat will be improved.		
Deliverables Achieved	During the 2013-15 grant term, contracted crews treated and retreated invasive plant species such as Himalayan blackberry, invasive cherry and English hawthorn trees and English ivy. Volunteers and contracted crews planted 3950 native plants in the treated areas of the 8.2 acre project site; much of the site has established native vegetation. The native plants at the project site continue to grow with ongoing maintenance activities keeping the Himalayan blackberry and English ivy in check. Two project signs adjacent to Murrayhill trails acknowledge the enhancement activities. Murrayhill residents and staff are pleased with the enhancement activity results.		

Project Category: Restoration			
Project Title	Upper McKay Watershed Forest Restoration Project	OWEB Grant #	
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	The project will focus on specific activities that address sedimentation issues including clearing debris from plugged culverts; replanting abandoned or unnecessary roads or trails; recommending trail realignment to protect steep slopes. It will also focus on removal of invasive species and replanting with native shrubs and trees.	In Council Action Plan	Yes
Key Partners	Bureau of Land Management, West Multnomah SWCD, Tualatin SWCD, landowners		
Limiting Factor(s)	Lack of Knowledge, Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	30% - Funding secured
Challenges	Finding ways to connect with landowners whose lands could result in beneficial and high ranking projects and who have interest in partnerships to implement such projects. Identifying and matching the timing of funding resources with landowner interest.		
Opportunities	Collaboration with TRWC partners and upper McKay Creek watershed landowners in development and implementation of projects. As the projects are developed and implemented the land owners will learn more about how to do restoration and the benefits of restoration and the hydrology, water quality and physical habitat will be improved.		
Planned Deliverables	Development of enhancement projects with willing landowners resulting in implementation of projects that address erosion issues in the upper McKay Creek watershed.		
Update Date	6/14/2018	% Complete	60% - Implementation in progress

Challenges	Finding ways to connect with landowners and identify high ranking project sites who have interest in partnerships to implement such projects. Identifying and matching the timing of funding resources with landowners interest.		
Opportunities	Collaboration with TRWC partners and upper McKay Creek watershed landowners in development and implementation of projects. As the projects are developed and implemented the land owners will learn more about how to do restoration and the benefits of restoration and the hydrology, water quality and physical habitat will be improved.		
Deliverables Achieved	Met with three Washington County Upper McKay watershed landowners to identify and evaluate potential projects; selected one project that will assist with stream bank stabilization through native plantings to be implemented in winter 2019. Continue to outreach with landowners to evaluate additional projects. Provided 175 native plants for an East Fork Upper McKay watershed landowner for enhancement activities.		

Project Category: Restoration			
Project Title	West Fork Beaver Creek Passage Replacement	OWEB Grant #	
Responsible Parties	Coordinator/Executive Director	Priority	High
Project Description	An identified high priority culvert was damaged during 2015 high waters. Working with Weyerhaeuser, Oregon Dept. of Fish & Wildlife and a private landowner, the crossing will be replaced with a bridge. In addition, large wood debris will be placed to capture gravels and sediment.	In Council Action Plan	Yes
Key Partners	Weyerhaeuser, ODFW, private landowner		
Limiting Factor(s)	Habitat Access - Impaired access to habitat, Physical habitat quality - Altered quality of physical habitat, Water Quality -Altered physical, chemical, or biological water characteristics.		
Original Date	2/23/2017	% Complete	5-30% - Conceptual/ Planning/ Submitting Grant application
Challenges	Timing of busy contractors, ODFW staff and others to coordinate implementation of work. Timing of funding availability.		
Opportunities	The project improved fish passage access, in-stream habitat and water quality in this stream reach. Build partnership for future restoration projects with Weyerhaeuser and ODFW.		
Planned Deliverables	Removal of identified high priority fish passage barrier in West Fork Beaver Creek; improvement of in-stream habitat, capture of gravels and sediment.		
Update Date	6/14/2018	% Complete	100% - Post grant reporting complete
Challenges	Timing of busy contractors, ODFW staff and others to coordinate implementation of work. Timing of funding availability.		

<p>Opportunities</p>	<p>The project improved fish passage access, in-stream habitat and water quality in this stream reach. In addition, the project can build future partnerships for future restoration projects with Weyerhaeuser and ODFW.</p>		
<p>Deliverables Achieved</p>	<p>During the 2017 in-water work period, a damaged culvert was removed and a 50' steel bridge installed by Weyerhaeuser. Large wood under the direction of ODFW was placed in ten appropriate locations above the installed bridge to provide needed in-stream habitat. During winter 2018, community volunteers and landowners planted approximately 150 native plants in a)areas near the bridge disturbed by the construction activities; and b) in downstream areas below the bridge to provide stream bank stabilization and increase bio-diversity.</p>		