	Management Strategy		Measurable Goals	Milestones	FY 16-17	FY 17-18	FY 18-19	FY FY 19-20 20-21	Annual Goal Tracking	Annual Status Update
				Convene workgroup to review 2009 Inventory data and to develop project scope that incorporates collective data needs among different sections.	х				Identify workgroup involvement, track meetings	Completed. Pacific Habitat Services was hired to conduct the analysis. They determined that the increase in shade categories as well as better
		1A	determine applicable updates that may include options for improved constraint/opportunities mapping and increasing the number of available shade categories (FY 2016-17).	Develop scope of work with project goals (and budget if consultant services needed).	х				decisions/outcomes. Track progress made on desktop	distinction between widths is too difficult to determine with any degree of confidence. They suggested to do instream shade monitoring for our restoration projects. Future options and technology to determine the shade will be considered in subsequent years.
				Conduct desktop/field analysis internally or with assistance of consultant services.	х	х				
				Convene workgroup to determine desired functionality for increased use.	х					The stormwater retrofit priorization tool is now complete. A portion of the tool uses riparian values in the assessment for those properties that have streams running through them. Riparian projects can be entered into this database and ranked. Generating and ranking riparian sites for planting will be on ongoing process. Currently, the area of focus for planting and enhancement is on City of Salem sites.
sment	1. Utilize GIS data to assess shade/canopy cover, prioritize and document planting projects, and to evaluate changes in the City's tree canopy.		increased utility (FY 2016-17).	Identify high priority areas/taxlots based on data review (shade, constraints, ownership, access, opportunity for community involvement etc.)		х			Identify workgroup involvement, track meetings and significant decisions, field inspections	
ew & Asses				Generate prioritized list of future targeted areas for planting and riparian enhancements (FY 2017-18).		х				
Data Review			Create GIS database to document all upland and riparian projects (FY 2017-18).	Develop criteria and tracking mechanism for database.	х				Identify workgroup involvement, track meetings	GIS and technical staff met during FY 2017-18 to discuss tracking the upland and riparian pojects. However, this task will now be addressed by the Natural Resources Workgroup for further discussion so that all three milestones can be addressed together.
GIS		1C		Work with Community Development to ensure knowledge of priority sites for planting (fines).	х				Isites, and number of plants	
				Generate a master map to assist with internal communication and update as needed based on available project data.		х			planted.	
		11)	Complete next update to 2010 Salem Canopy Study (FY 2020-21).	Develop scope of work, hire COR, and update study.				X	Track progress made on next canopy study.	The Canopy Study is scheduled to be conducted in FY 2020-21. However, during FY 2017-18, the City developed a street tree inventory to assess the number and species of street trees within the City of Salem. In summer 2018, the street tree inventory will be beta tested. The City is also developing a contract with Treecology to plant 100-150 street trees per year.

Management Strategy		Measurable Goals	Milestones	FY 16-17	FY 7 17-18	FY 18-19		FY 20-21	Annual Goal Tracking	Annual Status Update
		Continue to utilize contracted services to coordinate multi-year riparian planting projects on City-owned parcels (Annually).	Update annual Scope of Work with contractor to outline project location(s), site preparation, planting plan, maintenance needs, and estimated schedule of activities.	х	x	X	X	x		Friends of Trees will be providing continued services for the Judson Middle School site. One tree and shrub planting event is scheduled for March 9, 2019, and a follow up tree care event on May 4, 2019. Maintenance of invasive species at this site is ongoing. An additional riparian site is expected to be added for FY 2018-19.
			With consideration for the time needed for site prep and invasive vegetation removal in mind, ensure that at least 150 linear feet of streambank are planted with native trees/shrubs and/or receive targeted invasive vegetation removal each year (Annually).	х	x	x	x	x	Track annually the number of linear feet planted, number of trees/shrubs installed, and number of volunteers involved.	Approximately 450 linear feet along Pringle Creek at the Judson Middle School site was treated for invasive plants and planted with native trees and shrubs. Turnage Brook at Eola Park received 590 small native shrubs and trees and Pringle Creek at Judson Middle School received 1,200 small native shrubs and trees. Total volunteer number is 119 and the number of volunteer hours is 421.
			Reassess and document continued project maintenance needs (Annually).	х	х	х	х	х		Friends of Trees provides continued maintenance work at Judson Middle School.
			Reassess contract renewal/continued contracting needs for future planting events.		x					The contact with Friends of Trees was assessed and renewed for a 5-year period.
		Pursue MOA with local school district for multi- year riparian and upland planting projects on school owned lands. (FY 2016-17).	Meet with District staff to discuss possible collaboration and potential concerns.	x						Completed in prior years.
			Draft MOA that meets District needs and clarifies project scope, boundaries, and future maintenance responsibilities.	х					Document collaboration efforts with District, Council	Completed in prior years.
21			Submit MOA to City Council for approval to execute.	х					acceptance, progress and/or changes made to MOA, and any associated planting activities. Track number of	Completed in prior years.
			Initiate planting efforts on school owned properties under MOA or alternate agreement.		х	x	x	x	plants provided, and area planted.	The work at Judson Middle School is in progress and no new school sites are currently planned. We are recommending to complete the work at Judson successfully before continuing on with a new school.

	Management Strategy		Measurable Goals	Milestones	FY 16-17	FY 17-18	FY 18-19	FY FY 19-20 20-21	Annual Goal Tracking	Annual Status Update			
-		2C				Continue to offer native vegetation to targeted	Continue to offer native vegetation to at least 20 private streamside residents to supplement public planting projects. These residents are typically adjacent to the contracted project area and identified as having low riparian shade.	х	×	x	х х	Track number of properties receiving assistance and the	The City partnered with the the Glenn-Gibson Watershed Council to provide vegetation for 20 homeowners along the "headwaters" of Goldcrest Brook. However upon assessment, they determined that erosion issues need to be addressed first. City staff are developing a plan
es & Native Vegetation	2. Partner with local agencies, non-profits, volunteer groups, and local residents to coordinate plantings and to control invasive vegetation along Salem	20	streamside properties (Annually).	If available, continue to provide native trees and shrubs (or offer alternate resources) for additional requests received.	х	×	x	х х	number of plants provided.	to provide more detention upstream of this site. To be able to address this item, the City is seeking to reinstate its Free Tree Program and offer all streamside residents and businesses the ability to get free trees and shrubs for their properties.			
Trees	streams.			Finalize and submit to City Council a staff report with request to enter a MOA. If necessary, identify alternate partnering options.	х				Document Council Action,	Completed in prior years.			
				Review existing streamside data and identify a proposed list of taxlots to receive assistance.	х					Based on stream survey information in the Pringle Creek Watershed, 10 sites were originally identified to have knotweed. Additional sites were identified and added to the list.			
				Seek approval/interest from identified streamside residents and initiate control efforts.	х					Sixteen sites along Pringle Creek received treatment.			
		20	Initiate a collaborative effort with another partnering agency to assist private streamside	Create tracking mechanism to document location of efforts and continued progress made.	х	х				A map of invasive species has been developed for field data collection by the stream crew. Data from the knotweed efforts will be forwarded to add to the map.			
		20	proper	property owners in Salem with invasive vegetation removal and control (FY 2015-16).	Continue to provide and track assistance as resources allow.		x	x	x x	number of properties to receive assistance, and assistance provided.	Surveys of the treated properties showed successful treatment of knotweed. Site surveys showed that knotweed was eliminated or highly reduced at all sites. These efforts will continue in FY 2018-19 and include the Croisan Creek Watershed.		

	Management Strategy		Measurable Goals	Milestones	FY 16-17	FY 17-18	FY 18-19	FY FY 19-20 20-2	Annual Goal Tracking	Annual Status Update
			Develop a process for pursuing strategic planting and/or other riparian enhancements on lands donated/vacated to the City and on newly	Initiate internal meeting(s) with staff from multiple Divisions/Departments to determine core stakeholders, needs, and discuss options forward.		х	х		Document efforts/progress	See Strategy 1B above. Strategic planting
		2E		Finalize and document internal procedures based on predetermined need.				x	made on the development of	opportunities and riparian enhancement projects will be prioritized using the Prioritization Tool.
				Develop long-term approach for providing replacement trees/vegetation and planting assistance if needed.		х			Document internal	Replacement trees and vegetation will be offered to residents when the opportunity is identified or requested. No requests or opportunities based on fallen trees were identified during this reporting period.
			residents/businesses where fallen trees have been removed (FY 2017-18).	Ensure appropriate tracking mechanism for this assistance is developed, as needed.		x			coordination and determined approach for replacement trees.	
		34		Maintain riparian vegetation and control noxious/invasive weeds to ensure establishment of the approved native plant communities.	х	х	x	х х	Track completion of required monitoring activities.	developing a management plan for the area that
				Monitor established stream cross-sections to ensure continued streambank stability.	Х	х	x	x x		
		ЭА	performance standards (Annually).	Document site conditions with photographs from established points.	х	х	Track completion of required monitoring activities. Implement management recommendations. Track completion of required developing a management plan for twill allow for more credits to be relemented monitoring work is being done by complete the completion of required monitoring work is being done by complete the completion of required monitoring activities.	will allow for more credits to be released. The monitoring work is being done by contracted services with Pacific Habitat Services.		
n Bank	3. Implement Stream Mitigation Banking			Meet permit and SMB standards for channel stability and habitat.	х	х	x	х х		
n Mitigation	(SMB) Program as a means to offset impacts to waterways from			Report to agencies for seven years.	х	х	x	х х		Staff submitted the report to agencies prior to January 1, 2017.
Stream	public infrastructure improvements projects.		Submit an annual monitoring report and SMB Report to the ACOE and DSL by January 31 of each year (Annually).	Develop a Long-term Management Plan for the SMB Project Site.		x				This item is in progress. A scope of work is being developed for consultant services to produce the Plan.

	Management Strategy		Measurable Goals	Milestones	FY 16-17	FY 17-18	FY 18-19	FY FY 19-20 20-21	Annual Goal Tracking	Annual Status Update
				Evaluate options for project funding (FY 2016-17).	х					Completed in prior years.
				Based on available funding mechanism determine pilot project location and estimated scope of effort.		х				Detrmined in prior years for Woodmansee Park in the Pringle Creek Watershed.
				Finalize project scope and design.			x	х		In February 2018, a consultant produced the
	4. Pursue options for	4A	Complete at least one streambank stabilization/enhancement pilot project per TMDL plan cycle that incorporates bioengineering practices and the instream placement of large	Initiate bioengineering methods and installation of large woody debris.				х	Document determined funding mechanism, identified project	hydromodification and instream erosion, lack of stream diversity, and temperature TMDL. The report summarizes the West Fork Pringle Creek assessment, recomends enhancement strategies and overall design concepts, a stand-alone package to support the City's CIP planning process, and provides visualizations of concept designs. Next phase is to continue stakeholder coordination and develop a schedule for public meetings and community outreach. Staff met to address this milestone. It was determined to continue the use of the City's Watershed Protection and Preservation Grant to assist homeowners with streambank erosion. An additional \$25,000 was proposed for stormwater services' FY 2018-19 hudget for streamside
Stream Stabilization	4. Pursue options for streambank stabilization and riparian enhancement projects that incorporate bioengineering practices, the instream placement of woody debris, and native plants.		woody debris and (FY 2020-21).	Complete intitial pilot project per final scope and design.				x	project completion.	
			Pursue development of no cost home new	Initiate internal meetings to determine best approach forward toward development of a new alternative for assistance.		х			Identify workgroup involvement, track meetings	
		4B	options/programs to assist residents with streambank erosion and planting (FY 2019-20).	Finalize plan for providing assistance with streambank erosion.				х	program.	
tions	5. Continue to review and revise Salem Revised Code (SRC) provisions to ensure protection of riparian	5A		Initiate internal workgroup to review recently reorganized SRC.		х				
ian Protectio			IRIJES to identity inconsistencies and/or narriers	Coordinate with staff from Public Works, Community Development, and Legal on any proposed adjustments to SRC and/or the Administrative Rules.		х	х	х х	involvement, track meetings and significant decisions, and	A small work group has been identified and this project will become a part of the discussion for the Natural Resources committee to further address in FY 2018-19.
Riparia	area buffers.			Ensure protections for areas identified as having ample riparian canopy cover based on available GIS data.		х	х	х х	G , ,	

	Management Strategy		Measurable Goals	Milestones	FY 16-17	FY 17-18	FY 18-19	FY 19-20 20	FY 0-21	Annual Goal Tracking	Annual Status Update									
				Use updated riparian shade inventory and prioritization database to identify low canopy areas for targeted outreach.	х	х					Shade inventory was not updated based on consultant recommendations. Staff will still continue to use the current shade inventory for targeting outreach areas.									
		6A		Assess barriers to audience identified above.		х	x	ı	n C n in	umber for yearly outreach. Treate schedule and track umber of contacts, nterested parties, and plants	A consultant was hired in this fiscal year to conduct a study in FY 2018-19 that identifies audience barriers. The study is designed to identify barriers and relate those to the shade categories: low, medium, or high canopy cover.									
				Develop outreach schedule for targeted properties.		х	x		pianted.		Outreach schedule will be developed based on information gained from the survey conducted in FY 2018-19.									
	6. Assess and engage the community in education efforts focused on stream temperature.			Pursue the development of incentives to encourage planting along streambanks.		х	x	x	х		The 2018-19 survey is designed to help determine incentives that encourage planting along streambanks.									
		6B	Update Riparian Outreach Plan incorporating	Develop and conduct survey for streamside residents.		х				Track survey development, number of surveys	A consultant was hired in this fiscal year to conduct a study in FY 2018-19.									
			results of streamside survey (FY 2018-19)	Update outreach plan based on the survey results.		×	х			ompleted, and results.	This item is set for a due date of July 2019.									
		6C		Update retooled website with "key components" information from Riparian Outreach Plan.	х	x	х	х	X	Track #/content of updated	Staff has written riparian information for the web. Staff is currently addressing the web redesign and is slated to have the website complete by June 2019.									
ition & Outreach			1 61	6C	6C	6C	1 60		1 60 1	60		60	to the general public (Annually).	Compile updated information for streamside mailers, online ads, radio, presentations.	x	х	x	х	D (r	materials, trainings, etc.) rovided to citizens.
Public Education				Assist with development and implementation of a local backyard habitat program.	х	х	х	x	х		Staff continue to assist the Marion Soil and Water Conservation Distict with the program where needed.									
d			Continue/develop partnerships to share messages and leverage resources (Annually).	Continue to participate in MWOG and regional coalition.	х	х	X	х	x h	rack progress made on abitat program, number of pplications, partners and articipants.	Staff attend monthly MWOG meetings. The two culminating events are the annual Erosion Control Summit designed for construction professionals, agency staff, engineers, operations staff; and the Water Festival designed for 4th and 5th grade students to learn about water-related urban issues. (ECS attendance: 110 registered participants and Water Festival attendance: 210)									

	Management Strategy		Measurable Goals	Milestones	FY 16-17	FY 17-18	FY 18-19	FY 19-2		Annual Goal Tracking	Annual Status Update			
				Develop and implement streamside workshops for riparian landowners.			х	х	х		The FY 2018-19 survey to riparian property owners asks questions aimed to develop these workshops.			
		6E	6E	6E	6E		Promote efforts by local volunteer groups by providing materials to the public during community events, utilizing social media and internal communications, and advertising their efforts and the associated benefits through other tools as the resources are available.	х	x	X	x	х	Track advertising activities and all efforts assoicated with	Both tasks are ongoing. The Salem No Ivy Coalition helped promote weed control efforts and participated in ivy pulls at the following events: August 12—materials distributed at Englewood Forest Fest; October 2017—2 events at Deepwood (Chemeketa students) 40 trees saved; October 2017—Wallace event, 90 trees saved; October 2017—Hilfiker Park Property, 100
											(Annually).	Pursue options to utilize volunteer weed removal services to supplement both public planting projects and efforts to assist private streamside properties.	х	х
ou	7. Ensure internal awareness of TMDL requirements, Implementation Plan		((S			Develop informational report that provides an overview of the City's TMDL Implementation Plan (Plan) and annual reporting requirements to Salem City Council (FY 2016-17).	Provide staff report to City Council once per 5-year TMDL cycle.	x				Г		This item is slated for the final year of the plan to coincide with the renewal process.
Communication					Draft an event summary following each coordinated planting event.	х	х	x	х	х	Track progress made/comments on staff report, number of event summaries provided in	Event summaries are provided to the City's Public Information Officers and posted on the Clean Streams Facebook page.		
Internal C	strategies, and project updates/needs.		Ensure that information about TMDL requirements and/or associated tree planting events is included in management reports and internal newsletter. (Ongoing/Annually)	Complete 2 TMDL related articles per year for internal newsletter.	x	х	x	х	х		The internal PW newsletter, <i>In the Trenches</i> , is currently not being produced. Other options to share information are being determined.			

	Management Strategy		Measurable Goals	Milestones	FY 16-17	FY FY FY FY 17-18 18-19 19-20 20-21	Annual Goal Tracking	Annual Status Update						
		Additional Items												
Groundwater Recharge	8. Identify mechanisms for groundwater recharge	8A	Promote infiltration rain gardens to the public to help recharge groundwater.	Assist with community development of rain gardens.			Development of community rain gardens or other projects that promote groundwater recharge.	With funding from the Watershed Preservation and Protection grant, Temple Beth Sholom removed a protion of impervious parking lot and created a rain garden to filter and infiltrate water from their building and parking lot. The Friends of Mill Creek and students from North Salem High School helped identify, develop a planting plan, and plant a rain garden at 13th and Marion Street that will help treat road runoff. Proposed rain gardens along Court Street are slated to be placed into the retrofit project process in FY 2018-19.						
Other: G	recharge			Seek mechanisms to provide enhance wetland function.			Development of city projects that enhance wetland function.	Observations of dry/cracked soil and widespread invasive species cover led to an experimental sandbag dam at Fairview Wetlands, Parcel 5. The dam resulted in increased water levels throughout winter and into summer for two consecutive years. Due to the success of increasing hydrology and the cover of native wetland vegetation, a permanent structure was built enabling the wetland to have a more natural hydrologic regime.						
	9. Support protection		Provide mechanisms for the support and	Provide funding to North Santiam Watershed Council to support their work plan.			City's Grant.	Funds from the City's Watershed Protection and Preservation Grant were used to help fund the North Santiam Watershed Council's projects during FY 2016-17. Funding helped the Watershed Council plant 67,550 trees and shrubs in 77 riparian acres of the North Santiam Watershed.						
		9A	9A	9A (9A	9A e	9A e	9A	enhancement of the North Santiam River function.	Assist efforts with the North Santiam Watershed Drought Contingency Plan.			List efforts of coordination.	The City partnered with the North Santiam Watershed Council and the North Santiam Irrigation District for a two-year Bureau of Reclamation grant to develop a Drought Contingency Plan. The plan includes establishing watershed specific drought indicators as well as specific actions to address drought (or water scarcity).