# City of Dallas, OR

# TMDL 5<sup>th</sup> YEAR EVALUATION AND ASSESSMENT



#### Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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#### **ACRONYMS**

BMPs Best Management Practices

City City of Dallas

CESCL Certified Erosion and Sediment Control Lead

CS Construction Site Runoff

CWA Clean Water Act

DEQ (Oregon) Department of Environmental Quality

DMA Designated Management Agency

ESCP Erosion and Sediment Control Plan

EPA United States Environmental Protection Agency

GH Good Housekeeping in Municipal Operations

IDDE Illicit Discharge Detection and Elimination

LID Low Impact Development

LUCS Land Use Compatibility Statement

LWI Local Wetland Inventory

MCM Minimum Control Measure (aka Stormwater Controls)

NPDES National Pollutant Discharge Elimination System

NPS Nonpoint Sources (not under an NPDES permit)

NWI National Wetland Inventory
OAR Oregon Administrative Rules

ODA Oregon Department of Agriculture

ODFW Oregon Department of Fish and Wildlife

PC Post-Construction Runoff Control in New and Re-development

PE Public Education

PI Public Involvement

SWPPP Stormwater Pollution Prevention Plan

SWMP Stormwater Management Plan

TMDL Total Maximum Daily Load

TSS Total Suspended Solids

UIC Underground Injection Control Device

USGS United States Geological Survey
WQMP Water Quality Management Plan

#### 1.0 **Purpose**

The City of Dallas was identified as a Designated Management Agency (DMA) in the 2006 Willamette Basin TMDL and WQMP. The Water Quality Management Plan (WQMP) states that:

"Following approval of the TMDL implementation plan, DMAs will be expected to submit to ODEQ an annual status report briefly describing the status of management strategies that implement TMDL pollutant allocations or reductions. Every fifth year DMAs will need to submit an evaluation report. The report will describe the effectiveness of the management strategies identified in the TMDL Implementation Plan and put into place during the preceding four years. The report will indicate whether implementation of their plan is adequately meeting the pollutant reduction goals. If they determine it does not, the report will describe the steps they will take to modify their plan.

This document serves as the 5<sup>th</sup> Year Evaluation report referenced in the 2006 Willamette Basin WQMP for the period of 6/15/2018 to 09/30/22.

#### 1.1 Introduction

Correspondence from the City to DEQ, indicates the City of Dallas revised the 2008 TMDL Implementation Plan in 2013 and again in 2018. For the purpose of this evaluation, progress related to 'Tasks' is primarily from the 2018 implementation plan. The 2022 revision was developed in order to remedy programmatic shortcomings and to address the 2019 Final Revised Willamette Basin Mercury TMDL and WQMP. As was referenced in the City's 2022 Implementation Plan, the City had failed at recordkeeping efforts and progress in general.

The following was included as part of the 2021/2022 yearly progress report for Dallas:

"Recordkeeping and reporting has been problematic for Dallas since initial plan development. As is common with new DMAs, Dallas tried to implement its program using existing staff who have limited work hours and little ability or training to take on new responsibilities. While Dallas staff had every good intention of meeting their goals, falling behind was the ultimate outcome. Updates to the plan in 2018 were insufficient to meet the goals of the overall TMDL program, and the Annual Report submitted for the 2020/2021 clearly demonstrated that. With the issuance of the 2019 Final Revised Willamette Basin TMDL and WQMP, the City was moved to re-evaluate its efforts in regard to program implementation and move forward with a more comprehensive program."

Dallas did not maintain comprehensive records over the 5 year evaluation period. Attachment A reflects information retrieved from records from 6/2018 to 9/30/2022. Attachment B is a list of the 2018 Tasks and changes made to the plan in 2022. Appendix C is the 2022 matrix which the City is working from. This matrix will be used for the 2022/2023 yearly report.

#### 2.0 **Program Overview**

The 2018 version of the implementation plan included a list of Tasks that were developed in order to address the 3 pollutants of concern in the Willamette Basin TMDL; mercury, bacteria, and temperature. Although many of the Tasks were established stormwater Best Management Practices (BMPs), the measures, milestones, and timelines were not properly developed and the program lacked an internal review process. As is noted in Section 1.1 of this document, recordkeeping has been the most significant area of weakness for the City of Dallas. As such, the findings in Appendix A do not cover all activities and actions the City was involved in over the review period.

In order to address deficiencies in the plan, the City sought the assistance of a knowledgeable consultant to assist with development of remedies to the program. The result was a revised TMDL Implementation Plan which addressed the Final Mercury TMDL, but also updated the document to meet current program needs as well as current conditions within Dallas. The revised plan was submitted to DEQ in August 2022 and approved by DEQ in May 2023.

#### 2.1 Description of 5 Year Activities - 6/15/2018 to 09/30/22

It is worth noting that staff has made good efforts toward BMP implementation over the review period, but existing personnel did not fully understand stormwater programming and principles. There is documentable evidence that staff did attempt to move forward with Tasks listed in the plan. In an effort to alleviate this issue, Dallas has recently hired new personnel that are better equipped to implement new BMPs.

City staff put valuable effort into public education during the evaluation period. Information was available to the public on the City's website. Some educational material was made available for children at public events, and the City utilized their utility billing to educate a broader portion of residents in Dallas.



Public Works Booth at Krazy Days in August 2022

Public involvement activities have occurred during the review period in the form of volunteer activities such as ivy removal projects. The City has consistently observed Arbor Day by organizing volunteers for tree planting and invasive plant removal.



Girl Scout Tree Planting

The City also arranged to provide notice to City Council members shortly after the revised plan was submitted to DEQ. A PowerPt presentation was included at a City Council meeting on November 21, 2022.

Training has occurred for municipal staff in regard to good housekeeping practices. There has been some internal confusion about differences between stormwater and wastewater BMPs, but an attempt was made to educate personnel and that training was held consistently. See Good Housekeeping under Section 2.2.

The City actively maintains streets with a street sweeping program and an annual leaf haul in the Fall. The City also annually cleans catch basins, and repairs stormwater facilities.

Dallas did not have significant progress in either construction site runoff or post-construction runoff during the evaluation period.

#### 2.2 **Program Strengths**

Staffing -The City hired additional stormwater funded staff during the summer of 2022. This new position was highly instrumental in program progress during the summer of 2022 and into the last month of the evaluation period. Meetings were held in August and September 2022 with the consultant, primarily for mentoring purposes. To demonstrate progress in this area, a GIS Technician was hired in early 2023 as well.

Public Education – Dallas has made a good effort to provide outreach materials to the public during the review period. The website had stormwater related information as well as riparian area and invasive plant information.

Toward the end of the evaluation period the City began to add updated material to the website including the revised implementation plan, and an explanation about the plan and TMDLs. Activities associated with this control measure will be highly positive in the 2022/2023 Yearly Report.

Public Involvement – The City posted the Revised TMDL Implementation Plan to the City's website in September 2022. In addition, the website has information available explaining the TMDL program. This progress has continued since the end of the review period which will be covered in the 2022/2023 yearly report.

Good Housekeeping – The City has a strong Public Works operations program and has maintained a quality level of service. Staff made solid attempts to provide training for municipal staff in regard to illicit discharge, and water quality minded activities. This control measure will be refined in the next evaluation period.

Internal Attitude – The internal attitude toward proper program implementation has improved over time and staff is demonstrating interest in seeing the evolution of a successful TMDL Program.

#### 2.3 **Program Weaknesses**

Construction Site Runoff and Post-Construction Programs – Very little progress has occurred for these control measures over the evaluation period. These deficiencies have been identified and useful BMPs have been added to the revised plan.

Growing Pains - The City has done an excellent job of putting elements in place that will make the program successful. Their effort in the period from 2021 to present has been on track. The addition of dedicated personnel has made a recognizable difference. The only identifiable weaknesses in the program can be attributed to the growing pains associated with implementing a revised program.

The 5<sup>th</sup> Year Evaluation process allowed the DMA an opportunity to assess weaknesses in the overall program. In the case of Dallas, the City utilized the activity associated with meeting the new mercury TMDL requirements to identify overall weaknesses in the program. The City has good intentions of meeting obligations as the program moves forward.

#### 2.4 **Program Modifications**

As has been covered in this evaluation, the revised 2022 implementation plan was in response to the mercury TMDL. The changes to the program were designed to 1) reduce redundancy, 2) include BMPs that are designed to address the pollutants of concern in a useful way, and 3) create BMPs that can be more easily implemented by staff. Because the program was so recently revised, no major modifications are proposed at this time. Minor changes needed to

fine-tune the program may yet become apparent prior to the end of the 2022/2023 Report Year. Any noted deficiencies or programmatic changes will be covered in that report. Minor corrections to the matrix are noted in red.

#### 3.0 **Final Comments**

The City of Dallas has had some programmatic successes over the evaluation period. Lack of proper recordkeeping has prevented a more detailed accounting of those endeavors. The City understands that recordkeeping is a crucial element to the TMDL program and has taken steps to alleviate the problem. Future reporting by the City will be more comprehensive including numerics and dates documenting activities.

The City of Dallas looks forward to submitting its Yearly Report under this revised plan on December 1, 2023.

### APPENDIX A

### **BMP Implementation 2018-2022**

Task	#	Original Task Description	5 Year Activities
#1 T		Education and outreach for riparian health	The website was used to post information about invasive weeds and watershed health
#2 T		Partner with other organizations	The City has worked with the Luckiamute Watershed Council, Polk SWCD, but no significant coordination to report.
#3 T		Develop Local Wetland Inv	Local Wetland Inventory completed. Not yet adopted
#4 TI		Track variances to identify illegal riparian plant removal	No progress occurred on this Task
#5 M	IB .	Training for spill response and materials needed	Training occurred most years.
#6 M	IB	Develop SOP for catchbasin cleaning	No documentable progress
#7 M	IB	Develop a map with outfall locations	Outfall locations are identified on the GIS map. Field verification and inventory to be completed.
#8 B		Provide pet waste bags at stations	Aprx. 100,000 pet waste bags are purchased annually. Waste stations are maintained and filled
#9 B		Implement IDDE plan to identify illegal connections	No documentable progress
#10 I	MB	Training for IDDE inspections	Training has occurred most years
#11 I	M	Implement policy regarding charity car washes	No policy was implemented
#12 I	MBT	Implement and enforce a Post-Construction program	No Post-Construction program was developed.
#13 I	MB	Catch basin marking	No documentable progress
#14 I		Public education – utility bill insert	See task #1
#15 I		Actively engage civic organization and business for stormwater related outreach	No progress
#16		Website develop to allow for stormwater related material	The website was updated during the review period to include a stormwater brochure
#17 I		Explore options for collaboration on monitoring	No progress

T= Temperature, M=Mercury, B=Bacteria

## **TMDL Implementation Plan 5th Year Evaluation 2018-2022**

### APPENDIX B

### 2022 BMP Revisions

Task #	Original Task Description	Revisions
#1 T	Education and outreach for riparian health	Task #1 lacked specificity.  New BMPs provide clear goals and objectives
#2 T	Partner with other organizations	Task #2 was reworded and covered under BMP PE-6
#3 T	Develop Local Wetland Inv	Task was completed
#4 TM	Track variances to identify illegal riparian plant removal	As written this Task was unsuccessful as written.
#5 MB	Training for spill response and materials needed	Required language change for accuracy and direction. Removed and replaced with new ID BMPs
#6 MB	Develop SOP for catchbasin cleaning	Addressed under new GH-4
#7 MB	Develop a map with outfall locations	Covered under new ID-1 and ID-6
#8 B	Provide pet waste bags at stations	No changes
#9 B	Implement IDDE plan to identify illegal connections	Task #9 addressed under new ID-5
#10 MB	Training for IDDE inspections	No changes. Training is still included, but it will be directed toward new ID BMPs
#11 M	Implement policy regarding charity car washes	This Task was removed. Charity car washing is not a significant pollutant sources.
#12 MBT	Implement and enforce a Post-Construction program	Covered under new PC BMPs
#13 MB	Catch basin marking	Rewritten under new BMP PI-3
#14 MB	Public education – utility bill insert	Replaced with new Public Education Program
#15 MBT	Actively engage civic organization and business for stormwater related outreach	Replaced with new Public Education Program
#16 MBT	Website develop to allow for stormwater related material	Utilizing the website for education was retained
#17 MBT	Explore options for collaboration on monitoring	Removed. Performance monitoring will occur annually and submitted with annual report

T= Temperature, M=Mercury, B=Bacteria

				City of D	allas			
			TMDL IMP	LEMENTATION PI	LAN MATRIX 2018 -	2023		
				5 <sup>th</sup> Year Eva				
BMP#	Source	Strategy	How	Fiscal	Measure	Timing	Milestone	Status
	What source is being	What will be done to	Specifically, how	Considerations How is the BMP	How will successful	When will	What intermediate	
	addressed? (ex. runoff from	control or reduce pollutant from	will this be	funded? (ex. In	implementation or	the strategy	goals will be achieved	
	construction sites.	source?	done?	the 2023 budget,	completion be	be	and by when. Measure	
	riparian condition)	Source:		grant, etc.)	measured?	completed?	success	
	inparian containen,			POLLUTANT:	Mercury			
					,			
MCM #1 Pub	lic Outreach							
PE-1	Runoff from soil	Develop a resource	Resources to be	Work to be	Report updates in	2022	Develop program	Complete.
	disturbance and	portfolio of outreach	developed by	completed by	annual report		foundation with	
	direct discharge to	messages for the	knowledgeable	consultant			focused approach	
	waterway from	identified target	persons to reach					
	riparian area	audiences.	target audiences					
PE-2	Runoff from soil	Post relevant	Utilize material	Staff	Document materials	Ongoing	Completion of multiple	New material was posted in Sept
	disturbance and	stormwater public	from portfolio to		and topics covered	annually	documents on the	2022 which includes a brochure
	direct discharge to	education materials	make FAQ		annually and		website for the public	that addresses residents,
	waterway from	to the City's	sheets,		discuss in annual		to access.	landscaper, business audiences.
55.0	riparian area	website.	brochures, etc	0 "6 16	report		Update routinely	
PE-3	Runoff from soil	Participate in Krazy	Host a booth or	Small fund for	Document date of	Ongoing	Report number of	
	disturbance and	Days and/or other	event and	display materials	events and	annually	materials handed out,	
	direct discharge to	local events.	document	and incentive	participation		date, and participation	
	waterway from		materials	items				
PE-4	riparian area Discharge from	Provide educational	Presentation in	Staff time and	Document date, # of	Ongoing	Report specifics of	
PC-4	unvegetated riparian	opportunities and	classroom or	presentation	students, and	Ongoing annually	event including date,	
	area	material for	field events at a	needs	content	ariffually	material covered, etc	
	alca	students.	local park, etc	Heeus	Content		Illaterial covered, etc	
PE-5	Runoff from soil	Mail informational	Letters will cover	Staff time and	Complete mailing	2023 and	Maintain records of	Complete. 252 property owners
	disturbance and	letter to streamside	streamside	mailing cost	list in 2022/2023	2025	how many recipients	identified to receive the mailing
	direct discharge to	property owners 2x	responsibilities			=	and copy of the letters	
	waterway from	during the 5 year	and BMPs					
	riparian area	term						

BMP#	Source What source is being addressed? (ex. runoff from construction sites, riparian condition)	Strategy What will be done to control or reduce pollutant from source?	How Specifically, how will this be done?	Fiscal Considerations How is the BMP funded? (ex. In the 2023 budget, grant, etc.)	Measure How will successful implementation or completion be measured?	Timing When will the strategy be completed?	Milestone What intermediate goals will be achieved and by when. Measure success	Status
PE-6	Runoff from soil disturbance and direct discharge to waterway from riparian area	Partner with local watershed council, SWCD, university, etc	Provide financial support or other incentives for environmental activities in Dallas-Build productive relationships with other agencies	Tbd – agreement should be reached with the applicable group	Report annual progress in yearly report	Ongoing annually	Document progress annually Continue to partner with other agencies on collective efforts	
MCM #2 Public Ir	volvement							
PI-1	Runoff from soil disturbance and direct discharge to waterway from riparian area	Maintain a website to post the most current environmental educational information	Post the TMDL Plan on the City website with educational material	Staff time	Post the plan in 2022 and post plan reports submitted to DEQ annually	To occur each year starting in 2022	Post new and updated material annually and report	<b>Complete.</b> The revised plan is posted on the website with an introduction.
PI-2	Runoff from soil disturbance and direct discharge to waterway from riparian area	Annual presentation to City Council	Work Session presentation	Consultant and staff	Report progress in yearly report	To occur each year starting in 2022/2023	Content and date to be included in annual report	Complete. City Council meeting held on November 21, 2022. TMDL PowerPt presentation.
PI-3	Runoff from soil disturbance and illicit discharges	Utilize community groups to mark catch basins and include an educational element	Utilize community groups to mark a number of basins each year	Budget for placards, and misc. costs for adhesive, kits, etc.	Track number of basins marked and report annually	To occur each year starting in 2024	Track number of markers installed, dates, volunteers. Describe educational element	

BMP#	Source What source is being addressed? (ex. runoff from construction sites, riparian condition)	Strategy What will be done to control or reduce pollutant from source?	How Specifically, how will this be done?	Fiscal Considerations How is the BMP funded? (ex. In the 2023 budget, grant, etc.)	Measure How will successful implementation or completion be measured?	Timing When will the strategy be completed?	Milestone What intermediate goals will be achieved and by when. Measure success	Status
	scharge Detection and I Runoff from soil		Daview WOMD	Staff time	Document annual	Topony	Track annual assets	The City has utilized CIC and
ID-1	disturbance and impervious area	Update the City's GIS system to include new stormwater data	Review WQMP to meet DEQ requirements	Starr time	updates Develop a comprehensive map and update process	To occur each year starting in 2022/2023	(ie. outfalls, eatchbasins, etc) Describe annual progress	The City has utilized GIS and actively recruited for a GIS tech. in 2022
ID-2	Runoff from soil disturbance and impervious area	Develop an ordinance that prohibits non-stormwater discharges into the stormwater system	Utilize ordinances and programs from other agencies	Staff time involving legal	Provide DEQ annual progress on this BMP in the annual report	Complete by 2025/2026 2024/2025	Document annual activities	
ID-3	Runoff from soil disturbance and impervious area	Develop and enforce an escalating and response procedure to include construction sites, illegal dumping and illegal connections.	The plan will include escalating steps of enforcement	Staff time	Report progress and final to DEQ	Complete by 2025/2026 2024/2025	Document annual activities	
ID-4	Runoff from soil disturbance and impervious area	Annual staff training	Annual training by existing staff. Take advantage of inexpensive regional training	Include training in the annual budget	Report training date, # of employees in attendance	To occur each year starting in 2022/2023	Conduct annual training – develop a schedule. Yr 1 training by consultant	
ID-5	Runoff from soil disturbance and impervious area	Recordkeeping including response to complaint accounting	Utilize GIS or database to document response to calls and complaints	Staff time	Report # of complaints and outcome annually	To occur each year starting in 2022/2023	Develop a response process and tracking system	

BMP#	Source What source is being addressed? (ex. runoff from construction sites, riparian condition)	Strategy What will be done to control or reduce pollutant from source?	How Specifically, how will this be done?	Fiscal Considerations How is the BMP funded? (ex. In the 2023 budget, grant, etc.)	Measure How will successful implementation or completion be measured?	Timing When will the strategy be completed?	Milestone What intermediate goals will be achieved and by when. Measure success	Status
ID-6	Runoff from soil disturbance and impervious area	Conduct annual outfall inspections	Field inspect outfalls and maintain inventory	Staff time	Report activities in annual report	To occur each year starting in 2023/2024	Develop process and maintain digital inventory. Prepare for dry weather insp	
	uction Site Runoff							
CS-1	Runoff from soil disturbance and impervious area	Coordinate with the development community regarding the need for a 1200-C permit and a City ESCP Plan	Provide materials on the website and conduct site visits	Staff time	Report progress in yearly report	Ongoing to commence in 2023	Develop a flyer for builders/developers. Use in field and post on website	
CS-2	Runoff from soil disturbance and impervious area	Develop an Erosion Control Ordinance which includes DEQ requirements	Ordinance and document need to be consistent with 1200-C and 1200-CN programs	Staff time	Document annual progress	2025/2026	Report progress in each annual report	
CS-3	Runoff from soil disturbance and impervious area	Develop and enforce an escalating and response procedure to include qualifying construction sites	The response procedure will be linked to a process that applies to the ID, PC portions of the plan	Staff time	Report progress in annual report	2023/2024	Education will be emphasized prior to ordinance development. Develop draft	
CS-4	Runoff from soil disturbance and impervious area	Develop a tracking system	Will seek to eventually tie this process to GIS	Staff time	Report progress in annual report	2023/2024	Maintain annual tracking data	

BMP#	Source What source is being addressed? (ex. runoff from construction sites, riparian condition)	Strategy What will be done to control or reduce pollutant from source?	How Specifically, how will this be done?	Fiscal Considerations How is the BMP funded? (ex. In the 2023 budget, grant, etc.)	Measure How will successful implementation or completion be measured?	Timing When will the strategy be completed?	Milestone What intermediate goals will be achieved and by when. Measure success	Status
CS-5	Runoff from soil disturbance and impervious area	Send selected personnel to CESCL training and annual training for PW person	Utilize resources for local training	Training fees included in budget	Report training and recertification dates	2023/2024	Obtain training	
	nstruction Runoff Cont	rol for New and Rede	velopment					
PC-1	Runoff from soil disturbance and impervious area	Develop an ordinance or other regulatory mechanism such as design standards to meet the post-construction requirements	Utilize DEQ resources and mirror what other municipalities have done.	Staff time – potential for engineering costs	Document progress annually	Complete by 2025/2026	Describe progress in the annual report	
PC-2	Runoff from soil disturbance and impervious area	Evaluate the use of UICs in areas where stormwater cannot be infiltrated	Utilize engineering reports, soil surveys, field studies	Consulting cost	Report path forward in yearly report	2023/2024	Review regulatory language and soil data to determine feasibility	
PC-3	Runoff from soil disturbance and impervious area	Develop inspection and maintenance requirements for publically owned property	The plan should include a checklist for inspections	Staff time	Report annual progress	2024/2025	Add maintenance plan and protocol to GH manual	
PC-4	Runoff from soil disturbance and impervious area	Develop an inventory of private and public facilities	Review as-builts, field verify, etc	Staff time	Describe progress in the annual report	Complete by 2024/2025	Inventory shall include owner, installation date, type, etc.	
PC-5	Runoff from soil disturbance and impervious area	Staff training	Annual staff training for personnel	Cost of training	Report annual training activities	Ongoing starting in 2022/2023	Consultant to facilitate Year 1 training	

BMP#	Source What source is being addressed? (ex. runoff from construction sites, riparian condition)	Strategy What will be done to control or reduce pollutant from source?	How Specifically, how will this be done?	Fiscal Considerations How is the BMP funded? (ex. In the 2023 budget, grant, etc.)	Measure How will successful implementation or completion be measured?	Timing When will the strategy be completed?	Milestone What intermediate goals will be achieved and by when. Measure success	Status
PC-6	Runoff from soil disturbance and impervious area	Recordkeeping	Track facilities, ownership, age, type, etc	Staff time	Report annual activities	Ongoing starting in 2023/2024	Inventory existing facilities in 2023/2024	
	ousekeeping in Municip							
GH-1	Pollution from municipal operations	Develop a Good Housekeeping Manual	The manual is a reference guide for operations personnel	Staff time w/ Consultant	Describe progress in the annual report	Complete by 2022/2023	Complete manual	
GH-2	Pollution from municipal operations	Monthly Inspections at Shop Facility	Inspections will occur according to Good Housekeeping Manual in Yr 2	Staff time	Provide completion date and documentation for inspections to DEQ	Conduct inspections starting in 2023/2024	Conduct inspections according to the manual	
GH-3	Pollution from municipal operations	Street Sweeping	Continue street sweeping activities	Staff time	Provide annual activities in annual report	To occur each year starting in 2023	Evaluate practices to improve effort. Record quarterly removal totals	
GH-4	Pollution from municipal operations	Catchbasin Cleaning	Continue catchbasin cleaning – clean 50% of total annually	Staff time	Evaluate practices to improve effort	To occur each year starting in 2023	Provide annual activities in annual report	
GH-5	Pollution from municipal operations	Annual training	Utilize consultant for initial training	Consultant	Record date, content, and employees	To occur each year starting in 2023	Describe progress in the annual report	

BMP#	Source What source is being	Strategy What will be done to	How	Fiscal Considerations	Measure	Timing	Milestone	Status				
	addressed? (ex.	control or reduce	Specifically, how	How is the BMP	How will successful	When will	What intermediate					
	runoff from	pollutant from	will this be	funded? (ex. In	implementation or	the strategy	goals will be achieved					
	construction sites.	source?	done?	the 2023 budget,	completion be	be	and by when. Measure					
	riparian condition)			grant, etc.)	measured?	completed?	success					
	POLLUTANT: Temperature											
MCM #1 Public E	ducation											
PE-1	Sediment loading and	Develop a resource	Resources to be	Work to be	Report updates in	2022	Develop program	Complete				
	lack of shade	portfolio of outreach messages for the 5	developed by knowledgeable	completed by consultant	annual report		foundation with focused approach	·				
		year evaluation	persons									
		period										
PE-4	Sediment loading and	Mail informational	Letters should	Staff time and	Document date, # of	Ongoing	Report specifics of					
	lack of shade	letter to streamside	cover	mailing cost	students, and	annually	event including date,					
		property owners 2x	streamside		content		material covered, etc					
		during the 5 year	responsibilities									
		term	such as tree preservation									
			preservation									
PE-5	Sediment loading and	Partner with local	Provide financial	Tbd – agreement	Complete mailing	2023 and	Maintain records of					
	lack of shade	watershed council,	support or other	should be	list in 2022/2023	2025	how many recipients					
		SWCD, university,	incentives in	reached with the			and copy of the letters					
		or other regional	exchange for	applicable group								
		groups	environmental									
MCM #2 Public II	avolvoment		support									
PI-1	Sediment loading and	Maintain a website	Post the TMDL	Staff time	Post the plan in	To occur	Post new and updated					
	lack of shade	to post the most	Plan on the City	Can ano	2022 and post plan	each year	material annually and					
		current	website with		reports submitted to	starting in	report					
		environmental	educational		DEQ annually	2022	'					
		educational	material		_							
		information										

BMP#	Source What source is being addressed? (ex. runoff from construction sites, riparian condition)	Strategy What will be done to control or reduce pollutant from source?	How Specifically, how will this be done?	Fiscal Considerations How is the BMP funded? (ex. In the 2023 budget, grant, etc.)	Measure How will successful implementation or completion be measured?	Timing When will the strategy be completed?	Milestone What intermediate goals will be achieved and by when. Measure success	Status
PI-2	Sediment loading and lack of shade	Annual presentation to City Council	Work Session presentation	Consultant and staff	Report progress in yearly report	To occur each year starting in 2022/2023	Content and date to be included in annual report	
PI-3	Sediment loading and lack of shade	Utilize community groups to mark catch basins	Utilize community groups to mark a number of basins each year	Budget for placards, and misc. costs for adhesive, kits, etc.	Track number of basins marked and report annually	To occur each year starting in 2024	Track number of markers installed, dates, and volunteers	
ID-2	Scharge Detection and Sediment loading and lack of shade		Utilize ordinances and programs from other agencies	Staff time involving legal	Provide DEQ annual progress on this BMP in the annual report	Complete by 2025/2026 2024/2025	Document annual activities. Use Phase II as guidance	
ID-3	(See CS-3)	Develop and enforce an escalating and response procedure to include construction sites, illegal dumping and illegal connections.	The plan will include escalating steps of enforcement	Staff time	Report progress and final to DEQ	Complete by 2025/2026 2024/2025	Document annual activities	
ID-4	Sediment loading and lack of shade	Annual staff training	Annual training by existing staff. Take advantage of inexpensive regional training	Include training in the annual budget	Report training date, # of employees in attendance	To occur each year starting in 2022/2023	Conduct annual training – develop a schedule. Yr 1 training by consultant	

BMP#	Source What source is being addressed? (ex. runoff from construction sites, riparian condition)	Strategy What will be done to control or reduce pollutant from source?	How Specifically, how will this be done?	Fiscal Considerations How is the BMP funded? (ex. In the 2023 budget, grant, etc.)	Measure How will successful implementation or completion be measured?	Timing When will the strategy be completed?	Milestone What intermediate goals will be achieved and by when. Measure success	Status
MCM #4 Constru								
CS-2	Sediment loading and lack of shade	Develop an Erosion Control Ordinance which includes DEQ requirements	Ordinance and document need to be consistent with 1200-C and 1200-CN programs	Staff time	Document annual progress	2025/2026	Report progress in each annual report	
CS-3	Sediment loading and lack of shade	Develop and enforce an escalating and response procedure to include qualifying construction sites	The response procedure will be linked to a process that applies to the ID, PC portions of the plan	Staff time	Report progress in annual report	2023/2024	Education will be emphasized prior to ordinance development. Develop draft	
	nstruction Runoff Cont		-	0, ",	l B			
PC-1	Sediment loading and lack of shade	Develop an ordinance or other mechanism such as design standards to meet the post-construction reqs.	Utilize DEQ resources and mirror what other municipalities have done.	Staff time – potential for engineering costs	Document progress annually	Complete by 2025/2026	Describe progress in the annual report	
PC-3	Sediment loading and lack of shade	Evaluate the use of UICs in areas where stormwater cannot be infiltrated	Utilize engineering reports, soil surveys, field studies	Consulting cost	Report annual progress	2024/2025	Add maintenance plan and protocol to GH manual	
PC-5	Sediment loading and lack of shade	Develop an inventory of private and public facilities	Review as-builts, field verify, etc	Staff time	Report annual training activities	To occur annually starting in 2022/2023	Consultant to facilitate Year 1 training	

BMP#	Source What source is being addressed? (ex. runoff from construction sites, riparian condition)	Strategy What will be done to control or reduce pollutant from source?	How Specifically, how will this be done?	Fiscal Considerations How is the BMP funded? (ex. In the 2023 budget, grant, etc.)	Measure How will successful implementation or completion be measured?	Timing When will the strategy be completed?	Milestone What intermediate goals will be achieved and by when. Measure success	Status
PC-6	Sediment loading and lack of shade	C C	Annual staff training for involved personnel	Cost of training	Report annual activities	Ongoing starting in 2023/2024	Inventory existing facilities in 2023/2024	
	d Housekeeping in Municip						I =	
GH-1	Pollution from municipal operations	Develop a Good Housekeeping Manual	Include protocol for retention of trees and native vegetation along waterways	Staff time w/ Consultant	Complete manual	Complete by 2022/2023	Describe progress in the annual report	
				POLLUTANT:	Bacteria			
MCM # 1 Pub	lic Education							
PE-1	Runoff from pervious surface, or illegal discharge	Develop a resource portfolio of outreach messages for the 5 year evaluation period	Resources to be developed by knowledgeable persons	Work to be completed by consultant	Target audiences and key messages have	2022	Develop program foundation with focused approach	Complete
PE-2	Runoff from pervious surface, or illegal discharge	Post relevant stormwater public education materials to the City's website.	Material in the form of FAQ sheets, articles, brochures, etc	Staff	Document materials and topics covered annually and discuss in annual report	Ongoing annually	Completion of multiple documents on the website for the public to access. Update routinely	
PE-3	Runoff from pervious surface, or illegal discharge	Participate in Krazy Days and/or other local events.	Host a booth or event and document materials	Small fund for display materials and incentive items	Document date of events and participation	Ongoing annually	Report number of materials handed out, date, and participation	

BMP# PE-5	Source What source is being addressed? (ex. runoff from construction sites, riparian condition) Runoff from pervious	Strategy What will be done to control or reduce pollutant from source?  Mail informational	How Specifically, how will this be done?  Letters should	Fiscal Considerations How is the BMP funded? (ex. In the 2023 budget, grant, etc.) Staff time and	Measure How will successful implementation or completion be measured?  Complete mailing	Timing When will the strategy be completed?	Milestone What intermediate goals will be achieved and by when. Measure success Maintain records of	Status
	surface, or illegal discharge	letter to streamside property owners 2x during the 5 year term	cover streamside responsibilities and BMPs	mailing cost	list in 2022/2023	2025	how many recipients and copy of the letters	
PE-7	Runoff from pervious surface, or illegal discharge	Maintain pet waste stations	Stock, install, and maintain pet waste stations	Maintain budget for this activity	Collect records of when stations are stocked	To occur each year starting in 2022/2023	Report yearly activity in annual report	
	nvolvement and Partici							
PI-1	Runoff from pervious surface or degraded riparian area	Maintain a website to post the most current environmental educational information	Post the TMDL Imp Plan and other educational information	Staff time	Post new and updated material annually and report	To occur each year starting in 2022	Post the plan in 2022 and post plan reports submitted to DEQ annually	
PI-3	Runoff from pervious surface or degraded riparian area	Utilize community groups to mark catch basins	Utilize community groups to mark a number of basins each year	Budget for placards, and misc. costs for adhesive, kits, etc.	Track number of basins marked and report annually	To occur each year starting in 2024	Track number of markers installed, dates, and volunteer	
	scharge Detection and							
ID-2	Runoff from soil disturbance and impervious area	Develop an ordinance that prohibits non-stormwater discharges	Develop a plan to meet the conditions of IDDE in 2022/2023	Staff time involving legal	Document annual progress	Complete by 2025/2026 2024/2025	Provide DEQ annual progress on this BMP in the annual report	

BMP#	Source What source is being addressed? (ex. runoff from construction sites, riparian condition)	Strategy What will be done to control or reduce pollutant from source?	How Specifically, how will this be done?	Fiscal Considerations How is the BMP funded? (ex. In the 2023 budget, grant, etc.)	Measure How will successful implementation or completion be measured?	Timing When will the strategy be completed?	Milestone What intermediate goals will be achieved and by when. Measure success	Status
ID-3	Runoff from soil disturbance and impervious area	Develop an enforcement response plan	The plan will include escalating steps of enforcement	Staff time	Report progress and final to DEQ	Complete by 2025/2026 2024/2025	Document annual activities	
	ction Site Runoff							
CS-2	Runoff from soil disturbance and impervious area	Develop an Erosion Control Ordinance which includes DEQ requirements	Ordinance and document need to be consistent with 1200-C and/or 1200-CN programs	Staff time	Document annual progress	2025/2026	Report progress in each annual report	
CS-3	Runoff from soil disturbance and impervious area	Develop and enforce an escalating and response procedure to include qualifying construction sites	The response procedure will be linked to a process that applies to the ID, PC portions of the plan	Staff time	Report progress in annual report	2023/2024	Education will be emphasized prior to ordinance development. Develop draft	
	nstruction Runoff Cont		•		1 =			
PC-1	Runoff from soil disturbance and impervious area	Develop an ordinance or other regulatory mechanism such as design standards to meet the post-construction requirements	Utilize DEQ resources and mirror what other municipalities have done.	Staff time – potential for engineering costs	Describe progress in the annual report	Complete by 2025/2026	Document progress annually	

BMP#	What source is being addressed? (ex. runoff from construction sites, riparian condition)	Strategy What will be done to control or reduce pollutant from source?	How Specifically, how will this be done?	Fiscal Considerations How is the BMP funded? (ex. In the 2023 budget, grant, etc.)	Measure How will successful implementation or completion be measured?	Timing When will the strategy be completed?	Milestone What intermediate goals will be achieved and by when. Measure success	Status This is the annual reporting column. Make certain you draw DEQ here in the annual report ("FY 2023/2024 progress is listed in the status column of the matrix
PC-2	Runoff from soil disturbance and impervious area	Evaluate the use of UICs in areas where stormwater cannot be infiltrated	Utilize engineering reports, soil surveys, field studies	Consulting cost	Report path forward in yearly report	2023/2024	Review regulatory language and soil data to determine feasibility	
PC-3	Runoff from soil disturbance and impervious area	Develop inspection and maintenance requirements for publically owned property	The plan should include a checklist for inspections	Staff time	Report annual progress	2024/2025	Add maintenance plan and protocol to GH manual	
PC-4	Runoff from soil disturbance and impervious area	Develop an inventory of private and public facilities	Review as-builts, field verify, etc	Staff time	Describe progress in the annual report	Complete by 2024/2025	Inventory shall include owner, installation date, type, etc.	
PC-5	Runoff from soil disturbance and impervious area	Staff training	Annual staff training	Cost of training	Report annual training activities	To occur annually starting in 2022/2023	Consultant to facilitate Year 1 training	
MCM #6 Good	Housekeeping in Municip	pal Operations						
GH-1	Pollution from municipal operations	Develop a Good Housekeeping Manual	Include protocol for retention of trees and native vegetation along waterways	Staff time w/ Consultant	Describe progress in the annual report	Complete by 2023/2024	Complete manual and track activities	
GH-3	Pollution from municipal operations	Street Sweeping	Continue street sweeping activities	Staff time	Provide annual activities in annual report	To occur each year starting in 2023	Evaluate practices to improve effort. Record quarterly removal totals	

BMP#	Source What source is being addressed? (ex. runoff from construction sites, riparian condition)	Strategy What will be done to control or reduce pollutant from source?	How Specifically, how will this be done?	Fiscal Considerations How is the BMP funded? (ex. In the 2023 budget, grant, etc.)	Measure How will successful implementation or completion be measured?	Timing When will the strategy be completed?	Milestone What intermediate goals will be achieved and by when. Measure success	Status
GH-4	Pollution from municipal operations	Catchbasin Cleaning	Continue catchbasin cleaning – clean 50% of total annually	Staff time	Provide annual activities in annual report	To occur each year starting in 2023	Evaluate practices to improve effort. Field verify condition and priority	
				Other Manageme	ent Activities			
		Develop a sustainable stormwater fee	Review possible options including an impervious surface study	Staff time	Provide annual activities in annual report	2025/2026	Annual progress shall include options considered, and next steps	
		Develop a Stormwater Management Plan (SWMP)	SWMP to be developed using Phase II as a guide	Consultant to complete	Report completion date and provide upon request	2022/2023	Develop the SWMP	
		Complete annual reports	Develop document based on recordkeeping	Consultant to complete	Complete and submit the annual report	By due date Nov 1 <sup>st</sup> annually		
		Evaluate public education activities according to WQMP	Choose 1 activity to promote and help lead other activities	Consultant to complete	Review activities with staff and determine most effective activity and why	To be submitted with annual report		

•	Review and evaluative actions (monitoring)	Consultant to complete	Review and discuss with staff to plan changes for following year	To be submitted with annual report	
Complete 5 <sup>th</sup> Year Assessment and Evaluation	Gather information based on recordkeeping and annual reports	Staff time	Complete assessment using DEQ guidelines	2026/2027	

	Control Measures
PE	Public Education
PI	Public Involvement and Participation
ID	Illicit Discharge Detection and Elimination
CS	Construction Site Runoff Control
PC	Post-Construction Runoff Control
GH	Good Housekeeping in Municipal Operations