

City of Keizer
TMDL Implementation Plan Matrix
3rd Implementation Term – rev. 6/29/18

Pollutant: Bacteria

(Six Minimum Control Measures Listed at the End of Each Table)

Minimum Control Measure	Source <i>What source of this pollutant is being addressed?</i>	Strategy <i>What is being done, or what will be done to reduce or control pollution from the source?</i>	BMP	Fiscal Analysis	Measure <i>How will successful implementation or completion of this strategy be measured?</i>	Milestone <i>What intermediate goals will be achieved and by when to know what progress is being made?</i>	Timeline <i>When will the strategy be completed?</i>	Status <i>For the purpose of the draft Third Matrix, the ‘Status’ column provides clarification for each BMP. Once approved by DEQ, the Status column will be used for yearly progress details.</i>
Public Education	1. Bacteria carried to waterways in storm runoff and piped system	a. Prevent domestic animal waste from reaching waterway	i. Partner with an existing local activity such as Walk and Wag to promote pet waste education	Minor cost for SWAG and brochures	Attendance at one annual event	Attendance at event	2019 - 2023	
Public Education			ii. Continue to stock pet waste stations and supply bags at City parks	Variable	Communicate with Parks staff to determine if stations are being served and installed	Summary from Parks staff	Annual activity	
Public Education			iii. Continue guided hikes by Stormwater staff to highlight environmental issues of concern along waterways.	Funded	Track number of participants, school groups, and events	Work with local teachers and partner with other agencies for participation.	Annual activity	
Public Education			iv. Add stormwater-related information to the City’s Website	Funded	Track information added or updated	Review annual updates	Annual activity	
Public Education		a. Public outreach covering bacteria issues and concerns	i. Annual Water Festival	Co-funded by MWOG agencies	Track events, activities and participation	Annual planning meeting for the event	Annual activity	
Public Education			ii. Quarterly Newsletter and direct outreach to the media	Funded	An Environmental Newsletter is currently prepared for internal distribution. Take advantage of local media outlets for additional coverage.	Track newsletter, printings, topic, and distribution	Annual activity	
Public Involvement			i. Public Review of TMDL Implementation Plan	Staff time	Document events		Annual activity	
Illicit Discharge		a. Prevent human waste (from cross-connections), oil, grease, paint, and other pollutants from entering the storm system.	i. Revise Illicit Discharge Detection and Elimination Plan to meet the conditions of the new Phase II permit	Funded	Completion of revised plan	Annually report on progress	To be completed in coordination with the permit timing requirements	

Illicit Discharge			ii. Internal training for implementation of the new plan	Staff time	Track training	Annually report on progress	Initiate training when document is complete. Training to occur annually	
Illicit Discharge			iii. Annual TV inspection of the MS4	Funded	Track annual footage and identify illegal connections and repairs	Percentage and/or footage shall be consistent with the new Phase II permit	Activity as required by the new Phase II permit	
Enforcement Response			iv. Implement Enforcement Plan according to the specifications of the new Phase II permit	Staff time	Tracking and recordkeeping	Provide annual statistics according to permit	Annual activity	

Six Minimum Control Measures

PE = Public Education

PI = Public Involvement/Participation

ID = Illicit Discharge Detection and Elimination (IDDE)

CS = Construction Site Runoff Control

DS = Development Standards (Post-Construction Runoff Control)

OM = Operations and Maintenance (Pollution Prevention/Good Housekeeping)

**City of Keizer
TMDL Implementation Plan Matrix
3rd Implementation Term**

Pollutant: Mercury

(Six Minimum Control Measures Listed at the End of Each Table)

Minimum Control Measure	Source <i>What source of this pollutant is being addressed?</i>	Strategy <i>What is being done, or what will be done to reduce or control pollution from the source?</i>	BMP	Fiscal Analysis	Measure <i>How will successful implementation or completion of this strategy be measured?</i>	Milestone <i>What intermediate goals will be achieved and by when to know what progress is being made?</i>	Timeline <i>When will the strategy be completed?</i>	Status
Public Education		a. Public Education	i. Add stormwater-related information to the City's Website	Funded	Track information added or updated	Review annual updates	Annual activity	
Public Education			ii. Erosion Control Summit	Funded	Track attendees and information presented	Planning meetings with MWOG agencies	Annual activity	
Public Education			ii. Post Erosion Control presentations to the website	Funded		Review when material is posted	Annual activity	
Public Education			iii. Utilize the annual Consumer Confidence Report (CCR) to provide citywide outreach	Funded	Track content	Mailings scheduled for April/May on an annual basis.	Annual activity	
Public Education			iv. Quarterly Newsletter and direct outreach to the media	Funded	An Environmental Newsletter is currently prepared for internal distribution. Take advantage of local media outlets for additional coverage.	Track newsletter, printings, topic, and distribution	Annual activity	
Construction Site		c. Keep soil on site. Prevent material from entering catch basins and waterways	i. Internal training for field staff	Staff time	Record of meeting and content	Training schedule to be developed by staff	Annual activity	
Construction Site			ii. Conduct site inspections prior to soil disturbance	Staff time	Track meetings		Annual activity	
Development Standards			i. Develop a Water Quality Manual and associated standards	Staff time	City Council adoption of revised documents	Staff anticipates utilizing SWAC for review of this activity	To be completed in conjunction with the timeline listed in the Phase II permit	
Development Standards			ii. Internal training for water quality facilities	Staff time	Completion of training	Develop training schedule	Annual activity	
Operations and Maintenance			i. Revise the Good Housekeeping Manual	Staff time	Track progress		In conjunction with Phase II requirements	
Operations and Maintenance			ii. Internal training for O & M practices	Staff time	Track meetings	Ongoing	Annual activity	

Operations and Maintenance			iii. Catch basin cleaning	Funded		Annual inspect all catchbasins and clean those with 6" or more of debris.	Ongoing	
Operations and Maintenance			iv. Conduct street sweeping	Funded	Track progress	Sweeping on a monthly basis. This program is currently underway.	Ongoing	
Enforcement Response			i. Develop Enforcement Response Plan	Staff time	Track implementation statistics		To be developed in conjunction with new permit requirements	

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**City of Keizer
TMDL Implementation Plan Matrix
3rd Implementation Term**

Pollutant: Temperature

(Six Minimum Control Measures Listed at the End of Each Table)

Minimum Control Measure	Source <i>What source of this pollutant is being addressed?</i>	Strategy <i>What is being done, or what will be done to reduce or control pollution from the source?</i>	BMP	Fiscal Analysis	Measure <i>How will successful implementation or completion of this strategy be measured?</i>	Milestone <i>What intermediate goals will be achieved and by when to know what progress is being made?</i>	Timeline <i>When will the strategy be completed?</i>	Status
Public Education	1. Solar radiation and sediment deposition that results in a change in stream profile.	a. Retain mature trees, native vegetation, and encourage tree planting and use of native species for bank stabilization	i. Utilize the annual Consumer Confidence Report (CCR) to provide citywide outreach	Funded	Track content	Mailings scheduled for April/May on an annual basis.	Annual activity	
Public Education			ii. Develop a 5 year plan for enhancement of the Claggett Creek Park Wetland Complex	Will be seeking grants	Meet goals for each year – document progress	Developed plan and community partners	2023 to 2025	This property has been used as a cow pasture historically. A recent wetland delineation indicates that there are aprx 5 acres of wetland adjacent to Claggett Creek. The goal is to restore this area to a natural state and make it accessible to the public for passive recreation and education.
Public Education			iii. Implement condition of the plan for the Claggett Creek Park Wetlands	Staff time. Materials and equipment	Annual progress		Annual activity	
Public Education		b. Public outreach covering temperature issues and concerns	i. Guided hikes at Keizer Rapids Park.	Funded	Track number of participants, school groups, and events	Work with local teachers and partner with other agencies for participation.	Annual activity	
Public Education			ii. Use website to provide stormwater education	Funded	Track information added or updated	Review annual updates	Annual activity	
Public Involvement			i. Utilize volunteer groups for appropriate work at the Claggett Creek Park Wetlands	Staff Time		Include volunteer activities into the plan	Volunteer work will be incorporated according to the overall plan for the site.	
Arboretum			i. Utilize the new arboretum for providing information about the benefits of trees in filtering stormwater and providing shade to waterway	Funded	Track activities and groups of visitors	First activity	Annual activity	
Community College			i. Continue to use Cooperative Work Experience interns for tree inventory work in Keizer	Staff time	Track interns and specific activities	Intern goals met	This will occur routinely when the school has an appropriate student for us.	

Tree Preservation Ordinance			ii. Develop a Tree Preservation Ordinance	Staff Time	Track annual progress	Adoption by City Council	Implementation 2023 / 2024	
Update Wetlands Protection in City Code			iii. City code does not adequately address wetlands protection. Update code	Staff Time	Track annual progress	Adoption by City Council	Final 2023 / 2024	

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