

TMDL Implementation Tracking Matrix: Millersburg, Oregon STATUS UPDATED FOR 2023-2028, Rev. 12/8/2023

Millersburg has legal authority over land use on 2,850 acres within the City Limits. The Willamette River forms the western boundary of the City between river-mile 115.5 and 117.75 for approximately 2.25 miles. The City is implementing its MS4 Phase 2 Permit throughout its entire jurisdiction in order to also meet the NPS load allocations (LA) for the Mercury TMDL.

| POLLUTANT <i>Pollutants Addressed by the TMDL.</i> | POLLUTANT SOURCES | STRATEGY <i>What Millersburg is doing and will do to reduce pollution from this source.</i> | ACTIONS <i>Specific Implementation Measures.</i> | BENCHMARKS <i>Intermediate indicators of progress.</i> | TIMELINE <i>Beginning and completion dates.</i> | MEASURE <i>Demonstrate implementation or completion of the strategy.</i> | PROGRAM FUNDING | STATUS |
|--------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------|
| 1.0 TEMPERATURE | A. Solar Radiation | Maintain existing riparian plantings and shading vegetation. | Code enforcement of riparian and vegetative protections. When doing drainage way maintenance/brush removal activities, remove only obstructions to the flow. Protect trees and larger vegetation outside the active channel which provide shading and grass/vegetation within the channel which does not obstruct flow. | Compare aerial photographs at periodic intervals to determine the state of and changes to riparian areas. Visually inspect Crooks Creek main channel and its two northern tributaries within City limits. | Visual inspection of Crooks Creek and tributaries annually. Aerial photo analysis annually or as new open-source aerial photos become available. | Yearly review of standards compliance. Report on visual inspection of Crooks Creek and tributaries. Report on any code enforcement actions related to riparian vegetation. | General Fund/ Stormwater Fund | |
| | | Perform public outreach and education on riparian regulations and the benefits of riparian plantings and shading vegetation on private property. | Public outreach and education through posting materials to City website and/or fliers on benefits of riparian plantings and shading. Provide guidance to private property owners when requested. | Distribute or post outreach materials minimum of once per year. | Outreach materials reviewed annually and updated if needed. Maintain up-to-date website, review at least annually. Perform a minimum of one outreach event or one flyer/mailing each year. | Track and document outreach and education events, mailings, postings and other efforts; annual review. | General Fund/ Stormwater Fund | |
| | | Maintain existing shading vegetation in riparian areas on City-owned property. | Monitor health of existing vegetation in riparian areas on City-owned property. | Visually inspect trees annually. Engage arborist if conditions of concern exist. | Visual inspection by City staff annually. Evaluation by arborist as needed. | Report on annual visual inspection and arborist evaluation, as applicable. Report on implementation of arborist recommendations. | General Fund/ Stormwater Fund | |
| | B. Impervious Surface Runoff | Minimize new paving and roof areas, as practicable to reduce stormwater temperature increases. | Enforce maximum ground coverage standards per Land Use Development Code Zones and Zoning Regulations. | Monitor subdivision and building site plans. Review lot coverage for building permits submitted. | Ongoing; annual review | Track and document compliance review of new development, violations, and enforcement actions. | General Fund/ Planning and Development | |
| | C. Industrial Storm Water Discharges | Ensure regulations for industrial storm water are communicated to new industries. | Inform applicants of 1200-Z and 1200-C permit requirements and direct them to contact DEQ. Notify DEQ of any reported complaints regarding industrial stormwater discharges. | Ensure notification to new applicants by providing notes on city permit forms, land use approvals comments, etc. Track any notifications to DEQ. | Ongoing; annual review. | Yearly review of permit applications for compliance in notifying new applicants of 1200-C and 1200-Z requirements. Report any complaint notifications to DEQ | General Fund/ Planning and Development | |

| | | | | | | | | |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--|
| 2.0 BACTERIA | A. Septic Systems (approximately 4% of the City's dwellings are on individual septic systems) | Contact Linn County Environmental Health about reported concerns with existing septic systems. Ensure system conversion to municipal sewer system is required for new or redevelopment per the Development Code. | Continue expansion of municipal sewer system to serve all areas of the city. Enforce septic system conversion to municipal sewer system when required by Development Code. | Monitor septic system conversion to municipal sewer system & document sewer system extensions | Ongoing; annual review | Report number of septic systems converted to municipal sewer system each year. Report expansions to municipal sewer system Track complaints/ concerns City reports to Linn County | Sewer Fund | |
| | B. Pet and animal waste | Continue to supply pet waste pickup stations. Enforce farm animal regulations. | City is providing waste collection stations at City Parks and at other City-owned open space. Code enforcement of farm animal raising. | Monitor usage of waste collection stations and farm animal compliance with City Code. | Ongoing; annual review | Track approximate costs of maintaining and restocking dog waste stations. Track responses to complaints regarding animal waste, violations, and follow-up actions | General Fund/ Parks | |
| | C. Garbage spills | Encourage waste collection companies to cover waste bins during transit. Encourage adopt-a-road program within the City. | Enforce current traffic code requiring covered loads. Encourage and support adopt-a-road program by posting information on how to get started to the City web site and referring interested groups to Linn County for county roads. Provide supplies and equipment to adopt-a-road groups. Monthly street sweeping of all City streets, twice-a-month sweeping of Old Salem Road. | Respond to road/roadside debris complaints and remove debris during routine maintenance activities and on an as-needed basis. Ensure street sweeping activities are happening on regular schedule. Track number and type of supplies (bags, gloves) and equipment (vests, trash pick-up tools) provided to adopt-a-road groups. | Ongoing; annual review | Report on roadside debris observed and removed and any enforcement actions. Report on roads adopted and supplies provided by City, including costs, to adopt-a-road groups. Report on street sweeping activities. | Streets Fund | |
| 3.0 MERCURY | A. Erosion and sedimentation containing mercury from existing background sources and introduced deposits from air and industries. | Strategy: Pollution Prevention and Good Housekeeping for Municipal Operations | Actions: Reduce discharge of mercury-related pollutants, such as sediment, through the stormwater conveyance system. Conduct municipal operation and maintenance activities in a manner that reduces the discharge of pollutants to protect water quality. | Benchmarks: See Phase 2 MS4 General Permit, Schedule A.3.f | Timeline: See Phase 2 MS4 General Permit, Schedule A.3.f.i | Measure: See Phase 2 MS4 General Permit Schedule A.3.f | Funding: General Fund/ Stormwater Fund | |
| | | Public Education and Outreach | Conduct ongoing education and outreach program to inform the public about the impacts of stormwater discharges on waterbodies and steps they can take to reduce mercury-related pollutants in stormwater runoff. | See Phase 2 MS4 General Permit, Schedule A.3.a | See Phase 2 MS4 General Permit, Schedule A.3.a.i | See Phase 2 MS4 General Permit, Schedule A.3.a | Funding: General Fund/ Stormwater Fund | |
| | | Public Involvement and Participation | Implement public involvement and participation program that provides opportunities for the public to effectively participate in the development of stormwater control measures. | See Phase 2 MS4 General Permit, Schedule A.3.b | See Phase 2 MS4 General Permit, Schedule A.3.b.i | See Phase 2 MS4 General Permit, Schedule A.3.b | Funding: General Fund/ Stormwater Fund | |

| | | | | | | | | |
|-------------------------|-----------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Illicit Discharge Detection and Elimination | Implement and enforce a program to detect and eliminate illicit discharges into the stormwater conveyance system. | See Phase 2 MS4 General Permit, Schedule A.3.c | See Phase 2 MS4 General Permit, Schedule A.3.c.i | See Phase 2 MS4 General Permit, Schedule A.3.c | Funding: General Fund/ Stormwater Fund | |
| | | Construction Site Runoff Control | Refer Projects to DEQ to obtain NPDES 1200-C permit for construction projects that disturb one or more acres (or that disturb less than one acre if it is part of a "common plan of development or sale" disturbing one or more acres). | See Phase 2 MS4 General Permit, Schedule A.3.d.iii | See Phase 2 MS4 General Permit, Schedule A.3.d.i | See Phase 2 MS4 General Permit, Schedule A.3.d.iii | Funding: General Fund/ Stormwater Fund | |
| | | | Require construction site operators to complete and implement an Erosion and Sediment Control Plan for construction sites that disturb 10,000 square feet or more and are not already covered by a 1200-C permit | See Phase 2 MS4 General Permit, Schedule A.3.d.iv | See Phase 2 MS4 General Permit, Schedule A.3.d.i | See Phase 2 MS4 General Permit, Schedule A.3.d.iv | Funding: General Fund/ Stormwater Fund | |
| | | | Require erosion controls, sediment controls, and waste materials management controls to be used and maintained at all qualifying construction projects from initial clearing through final stabilization. | See Phase 2 MS4 General Permit, Schedule A.3.d.ii | See Phase 2 MS4 General Permit, Schedule A.3.d.i | See Phase 2 MS4 General Permit, Schedule A.3.d.ii | Funding: General Fund/ Stormwater Fund | |
| | | | Develop, implement, and maintain a written escalating enforcement and response procedure. | See Phase 2 MS4 General Permit, Schedule A.3.d.vii | See Phase 2 MS4 General Permit, Schedule A.3.d.i | See Phase 2 MS4 General Permit, Schedule A.3.d.vii | Funding: General Fund/ Stormwater Fund | |
| | | | Track implementation of construction site runoff program required activities. | See Phase 2 MS4 General Permit, Schedule A.3.d.ix | See Phase 2 MS4 General Permit, Schedule A.3.d.i | See Phase 2 MS4 General Permit, Schedule A.3.d.ix | Funding: General Fund/ Stormwater Fund | |
| | | | Post-Construction Site Runoff for New Development and Redevelopment | Develop, implement, and enforce a program to reduce discharges of pollutants and control post-construction stormwater runoff from new development and redevelopment project sites. | See Phase 2 MS4 General Permit, Schedule A.3.e | See Phase 2 MS4 General Permit, Schedule A.3.e.i | See Phase 2 MS4 General Permit, Schedule A.3.e | Funding: General Fund/ Stormwater Fund |
| | | 4.0 INTERRELATED FACTORS | A. Stormwater Discharge, a contributing source factor for all three Identified Pollutants. | Provide stormwater detention and treatment. | Enforce existing regulations & perform regular maintenance inspections of existing public facilities. Update engineering standards to comply with MS4 permit requirements for retention and water quality treatment. | Monitor effectiveness of existing regulations and maintenance program. Update engineering standards to require retention in addition to stormwater treatment and detention. | Ongoing enforcement of existing standards Revision of post-construction stormwater quality engineering standards by Feb 28, 2024 for compliance with MS4 Phase II General Permit. | Maintain records of stormwater calculations and reports in development files. Track maintenance of facilities. Provide updated engineering standards for post construction stormwater quality on Millersburg website. |
| B. Disposal & Recycling | Prevent hazardous waste & illegal discharges and encourage recycling. | | Work with waste disposal provider (Republic Services) to provide information to the public | Regular review of agreement with Republic Services to ensure | Periodic and on-going. Franchise agreement is reviewed every five years, | Maintain record of any reported illegal discharges and enforcement actions. | General Fund | |

| | | | | | | | | |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--|--|
| | | | on disposal regulations and recycling. Support Hazardous Waste collection days. Advertise on City reader board and website. | services continue to meet the needs of the community. | evaluation of services annually. | Report on Actions. | | |
| | Illicit Discharge, Detection and Elimination | Monitor ditches during dry weather. Dry weather screening - inspect 20% of outfalls annually. Provide reporting/complaint information on City website, including phone number and complaint form. | Investigate source of any flow found in ditches during dry weather for IDDE. Track dry weather outfall inspection/screening. | Dry weather ditch monitoring – ongoing. Inspect at least 20% of outfalls annually. | Report on any flow found in ditches during dry weather and outcome of any investigations. Report on dry weather outfall screening. Track responses to complaints. | General Fund/ Stormwater Fund | | |
| C. Information Program for Clean Water Act and potential pollutants | Implement outreach and education activities for new local industries and the general public. | Post information or links to City website. Educate new industries about protection of stormwater. | Review stormwater flyer for general public, post to website, and make available at City Hall. Review stormwater flyer for industry and give to new industries at time of permits. | Review flyers annually and ensure they are posted on City website. | Annual communication of information to public and report to council. Provide flyers with annual report. | General Fund/ Stormwater Fund | | |
| D. Funding | Provide funding for planning and implementation of needed programs to address pollution. | Seek funding sources, including considering creation of a stormwater utility and fee. | Prepare a working list of potential funding sources. | Ongoing; annual review | Achieve funding to implement planning and implementation of needed programs | General Fund/ Stormwater Fund | | |
| E. Intergovernmental Cooperation | Achieve economies and expanded informational base through cooperative associations. | Contact local and statewide organizations addressing environmental issues. Expand participation in Oregon ACWA. | Attend stormwater information sharing events. Participate with other agencies in local collaboration groups. | Ongoing; annual review | Report on events attended and participation in local collaboration groups. | General Fund/ Stormwater Fund | | |
| F. City Council Support for water quality efforts | Ensure City Council is aware of TMDL requirements, TMDL Implementation Plan, and city-wide efforts to improve water quality. | City Council meeting overview and acknowledgement of TMDL Plan, Annual Report, and Five Year Review. | Revised Matrix presented to City Council; Annual City Council meeting minutes. | Ongoing; annual review | Annual meeting with City Council about TMDL responsibilities, progress, funding needs, etc. | General Fund/ Stormwater Fund | | |
| G. Staff Training and Good Housekeeping | Implement requirements of MS4 Phase II General Permit for stormwater system maintenance. | Establish a stormwater system maintenance program per the MS4 Permit. | Program and fund stormwater system maintenance activities: street sweeping, inlet inspection, system cleaning. | Establish and begin implementing program by Feb 28 ,2024 in accordance with the MS4 Phase II General Permit. | Report on maintenance activities. | General Fund/ Stormwater Fund | | |
| | Annual staff training. | One staff member participate in one training event per year and give presentation to other staff, as applicable. | Participation in one training event annually. | Training - annually, ongoing. | Documentation of training event attended and materials presented to other staff, as applicable. | General Fund/ Stormwater Fund | | |
| H. Public Involvement | Provide opportunities for public involvement. | Include public outreach events in master plan processes and provide public comment periods for adoption of master plans. Allow for public comments on stormwater related topics at council meetings. Maintain publicly accessibly website. | Provide materials for public review ahead of meetings by posting on website. | Ongoing; annual review | Report on public outreach activities conducted and comments received. | General Fund | | |