

TMDL Implementation Tracking Matrix: Lowell, Oregon

Lowell has legal authority over land use on 460 acres within the City's limits. The three drainages within city limits run ~1.75 miles through length of the City and drain into Dexter Lake. The land upstream from Lowell is mostly Willamette National Forest.

POLLUTANT	SOURCE of POLLUTANT	STRATEGY <i>What we are doing and will do to reduce pollution from this source</i>	ACTIONS <i>Specific ways to implement strategies</i>	BENCHMARK <i>Intermediate indicators to know progress is being made</i>	TIMELINE	MEASURE <i>How we will track implementation and completion</i>	STATUS
Temperature	1. Solar radiation input	a. Protect and enhance existing riparian vegetation and wetland habitats	Continue to review existing watershed maps/aerial images and identify priority areas for riparian plantings	<ul style="list-style-type: none"> ▪ Document aerial images that will be used as baseline for use in 2020 assessment 	<ul style="list-style-type: none"> ▪ Year 1: Document most recent aerial images that will be used as the baseline for comparison in 2020 ▪ Year 3: Compare changes in aerial images of vegetation from baseline images to most recent images. ▪ Year 3: Develop priority list of areas for riparian plantings or maintenance of previous plantings. ▪ Year 3: Identify funding needed to address priority list ▪ Years 4-5: Implement new plantings or maintain previous plantings per the priority list and available funding 	<p>Priority list and map of priority areas is reviewed and updated every two years, starting in 2018</p> <p>Priority list of planting areas is developed, and funding needs are quantified</p>	<p>Completed. Aerial images documented. Baseline comparison completed. Priority list started.</p>
			Enforce riparian protection requirements in Lowell Development Code 9.600-9.604	<ul style="list-style-type: none"> ▪ Tracking mechanism for code violations is in place 	<ul style="list-style-type: none"> ▪ In progress, ongoing ▪ Annual review 	<p>Track and document code violations of LDC, and any enforcement actions taken, as it relates to riparian and wetland setbacks</p> <p>Track and document variances to development codes that the city grants within setback areas.</p>	<p>No Violations of LDC 9.600-9.604.</p> <p>No variance requests within setbacks have been made.</p>
			Continue to partner with USACE to monitor, enhance and improve West Boundary riparian restoration area	<ul style="list-style-type: none"> ▪ Assist in removal of non-native plants and replace with native species ▪ Monitor progress of planted vegetation ▪ Provide bi-weekly watering for new vegetation during dry weather 	<ul style="list-style-type: none"> ▪ Contact and begin working with USACE ▪ Provide seasonal updates to USACE on survival of vegetation 	<p>Track and document work completed as part of this partnership, including size of areas treated for invasive species, plant mortality rates, and watering schedule.</p>	<p>See note 1</p>

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		b. Work with Middle Fork Willamette Watershed Council to develop public education program	Collaborate with MFWWC to provide outreach events and materials to community members	<ul style="list-style-type: none"> Sponsor or support at least one public education/outreach event annually Publish at least one education article in local newsletter and on City website annually 	<ul style="list-style-type: none"> Years 1-5: Provide support for at least one event every year Years 1-5: Publish at least one article a year in newsletter and website Annual Review 	<ul style="list-style-type: none"> Track dates of events held, support city provided, number of attendees, and outreach/education topics covered 	See note 2
	2. Wastewater treatment plant discharge	a. Maintain low Effluent Temperatures	Maintain compliance with NPDES permit requirements	<ul style="list-style-type: none"> Reporting shows effluent temperature complies with permit requirements 	<ul style="list-style-type: none"> In progress and on-going Annual review 	<ul style="list-style-type: none"> Track deviations from NPDES requirements 	100% compliance
POLLUTANT	SOURCE of POLLUTANT	STRATEGY	ACTIONS	BENCHMARK	TIMELINE	MEASURE	STATUS
		<i>What we are doing and will do to reduce pollution from this source</i>	<i>Specific ways to implement strategies</i>	<i>Intermediate indicators to know progress is being made</i>		<i>How we will track implementation and completion</i>	
Bacteria	3. Pet/Animal waste & yard debris	a. Reduce the amount of pet/animal waste that is not properly disposed of	<ul style="list-style-type: none"> Maintain pet/animal waste stations including bags, educational signs, and other information at City Parks Inspect stations weekly with park inspections 	<ul style="list-style-type: none"> Pet/animal Waste Bags being used/replaced Stations inspected and cleaned weekly 	<ul style="list-style-type: none"> In progress, ongoing Annual review 	<ul style="list-style-type: none"> Track maintenance schedule and annual cost of maintaining pet stations 	Completed See note 3
		b. Educate citizens about the importance of removing yard debris, and animal waste, from waterways & riparian areas	Enforce existing pet/animal waste ordinance	<ul style="list-style-type: none"> Ordinance 289 LRC 5.204(a)(1-3) in place and enforced 	<ul style="list-style-type: none"> In progress, ongoing Annual review 	<ul style="list-style-type: none"> Track the number of citations issued 	No Citations issued
			<ul style="list-style-type: none"> Provide Monthly green waste disposal events to citizens of Lowell Provide educational information on City website 	<ul style="list-style-type: none"> Publish informational article(s) on City website Advertise green waste drop off 	<ul style="list-style-type: none"> Monthly events provided Annual review 	<ul style="list-style-type: none"> Track community involvement with green waste drop off, e.g. number of households that participate, or amount of waste collected Document educational information provided Track number of educational events and topics covered 	Completed see note 4

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	4. Stormwater discharge	a. Educate the public of ways to minimize stormwater impacts	<ul style="list-style-type: none"> Distribute fact sheets at City Hall Post informational materials on water quality to City website 	<ul style="list-style-type: none"> Fact sheets available Informational material available on website 	<ul style="list-style-type: none"> Year 1: Begin reviewing existing information in 2018 Years 2-5: Publish and maintain materials on website, and make available at City Hall upon completion 	Copies of fact sheets available at City Hall and posted on website	Completed. Information available in both locations
			Support Middle Fork Watershed Council in securing funding and expanding educational programs focused on improving water quality	<ul style="list-style-type: none"> Projects identified Proposals submitted to implement educational activities 	<ul style="list-style-type: none"> Years 1-2: Identify key educational messages Years 1-2: Identify resources available to support educational programs Years 3-5: implement initiatives depending on funding and support 	Track the number of educational events and initiatives undertaken by the Middle Fork WC that are supported by the City, e.g. in-kind support, financial support, etc.	See note 2
			Add materials on stormwater to the City website	Materials reviewed and selected	<ul style="list-style-type: none"> Year 1: Begin reviewing existing information in 2018 Year 2: Add materials to website Years 3-5: Update website info as needed 	Stormwater section added to Website and kept current	See note 5
	5. Wastewater treatment plant	Maintain low Effluent bacteria levels	b. Illicit discharge, detection and elimination (IDDE)	<p>Enforce existing Discharge ordinance(s)</p> <ul style="list-style-type: none"> Ordinance 266 LRC 4.248-4.273(a)(b) in place and enforced Ordinance 252 LDC 9.520 in place and enforced 	<ul style="list-style-type: none"> In progress, ongoing Annual review 	<ul style="list-style-type: none"> Track and document the number of IDDEs and any citations 	No IDDEs or citations
			Maintain compliance with NPDES permit requirements	<ul style="list-style-type: none"> Undertake annual reporting process Reporting shows effluent bacteria complies with permit requirements 	<ul style="list-style-type: none"> In progress and on-going Annual review 	Track deviations from NPDES permit	100% compliance

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Mercury	6. Natural background in soil and rock	Decrease soil disturbance in areas sensitive to erosion	Ensure compliance with Section 9.632 of the Land Development Code	Review LDC requirements annually	<ul style="list-style-type: none"> In progress, on-going Annual review 	Track applications; document violations and enforcement actions	Completed See Note 6 &7
	7. Erosion and Sedimentation	Decrease/Limit sedimentation and erosion from new construction	Require 1200-C permits for new large developments	<ul style="list-style-type: none"> Include 1200-C information at City Hall and City website 1200-C incorporated in application review when needed 	<ul style="list-style-type: none"> In progress, on-going Annual review 	Track new Developments which require a 1200-C	Completed See note 7
	8. Construction and expansion of infrastructure	Evaluate each Development one acre or larger using LDC 9.520(g)(1-8)	Ensure compliance with Section 9.520 of the Land Development Code	Provide information on treatment methods at City Hall	<ul style="list-style-type: none"> In progress and on-going Annual review 	Track and monitor new developments; document violations and enforcement actions.	Completed. See note 7
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All Pollutants	9. Pollutant prevention and Program support	Implement outreach and education activities	Provide training for Public Works Staff	<ul style="list-style-type: none"> Training selected and scheduled 	<ul style="list-style-type: none"> Year 1: Review training materials that are available Years 1-5: provide at least one training a year Annual review 	Track and document trainings attended and topics covered. Document that all public works employees are up to date using latest materials	Completed. See Note 8
			Add interpretive signage associated with restoration projects as they are completed	<ul style="list-style-type: none"> Sign designed and sites determined as projects are completed 	<ul style="list-style-type: none"> Years 1-2: identify at least one location where signage is appropriate Years 1-3: identify funding needs for installing at least one sign Years 4-5 Install at least one interpretive sign 	At least one interpretive signs installed in the City of Lowell during this five year cycle	Completed. See Note 9

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	Reduce the amount of hazardous waste that is not properly disposed of	Host Annual Hazardous Waste Clean up	<ul style="list-style-type: none"> ▪ Annual event scheduled 	<ul style="list-style-type: none"> ▪ In progress, ongoing ▪ Annual review 	Document event date, and volume collected	See note 10
	Seek opportunities to partner with other local governments and organizations to implement mutual strategies	<ul style="list-style-type: none"> • Continue to be involved in regional water resource planning efforts 	<ul style="list-style-type: none"> ▪ Two meetings attended annually 	<ul style="list-style-type: none"> ▪ In progress, ongoing ▪ Annual review 	<ul style="list-style-type: none"> ▪ Track attendance at region-wide water resource planning meetings ▪ Track support of proposals that work on region-wide coordination 	See note 8
	TMDL review and updating	Review and update TMDL plan as required by DEQ.	<ul style="list-style-type: none"> ▪ Submit annual report to DEQ on status of TMDL implementation every year ▪ Submit Five Year Review and updated TMDL matrix every 5 years. 	<ul style="list-style-type: none"> ▪ Years 1-4: Submit annual report. ▪ Year 5: Submit Five Year review and Updated Plan 	<ul style="list-style-type: none"> ▪ Annual report submitted on time every year ▪ Five Year review and updated TMDL plan submitted on time 	Completed TMDL report will be presented to Council in June.
City Council support for water quality efforts	Ensure City Council is aware of TMDL requirements and plan and city-wide efforts to improve water quality.	<ul style="list-style-type: none"> ▪ Send City Council copies of TMDL materials ahead of annual city council meeting where TMDL is discussion in the agenda 	<ul style="list-style-type: none"> ▪ Annual report or five year review presented to City Council 	Document annual City Council meeting minutes Annual review		