

**Benton County TMDL Implementation Matrix**

**Appendix “A”**

<b>Benton County TMDL Implementation Tracking Matrix</b>									
<b>POLLUTANT: Bacteria</b>		<b>STRATEGY</b> <i>What is being done, or what will you do, to reduce and/or control pollution from this source?</i>	<b>HOW</b> <i>Specifically, how will this be done?</i>	<b>FISCAL ANALYSIS</b> <i>What is the expected resource need? Are there existing resources budgeted? If not, where will the resources come from?</i>	<b>MEASURE</b> <i>How will you quantitatively or qualitatively demonstrate successful implementation of this strategy?</i>	<b>TIMELINE</b> <i>When do you expect it to be completed?</i>	<b>MILESTONE</b> <i>What intermediate goals do you expect to achieve, and by when, to know progress is being made?</i>	<b>STATUS</b> <i>Include summary and date.</i>	
1. Failing septic systems.	a. Develop septic management system.	<p>i. Monitor existing Alternative Treatment Technology systems (ATT’s) annually.</p> <p>ii. Regularly update Environmental Assessment Priority List (EAPL); develop strategies for addressing issues on the list, with goal of resolving the top issues by the next update.</p> <p>iii. Explore methods for performing sanitary surveys collaboratively with other counties; prioritize problem areas.</p> <p>iv. Work with DEQ, municipalities and others to identify sources of bacteria pollution and encourage effective abatement</p>	<p>Annual inspection and report fee for ATT’s as required under OAR 340-71-345(14)(C)(E).</p> <p>Existing staff; general fund. Resolving specific issues may involve multi-departmental or multi-agency efforts, including staff time and other resources; might require grant or other funding.</p> <p>Funding needed. Perhaps multi-county effort, with grant funding, could be organized.</p> <p>Currently work with the Cities of Albany, Corvallis, Monroe, Philomath, etc. to identify contamination resulting from failing septic systems, primarily in the urban growth areas.</p>	<p>Existing strategy completed March 1, 2005 under Oregon DEQ rule changes. All ATT systems inspected annually.</p> <p>Updated version every 2 years.</p> <p>Options and decision on whether and how to proceed with sanitary surveys.</p> <p>Existing strategy on a case-by-case basis.</p>	<p>Ongoing (annual)</p> <p>Next update by January 2009. Develop strategies by May 2009.</p> <p>January 2010</p> <p>Ongoing (project specific)</p>	<p>N/A</p> <p>N/A</p> <p>Begin scoping January 2009.</p> <p>N/A</p>	<p>Could be expanded to include other types of septic systems through state rule change and/or adoption of a local ordinance. Additional funding required through fees.</p> <p>Existing strategy; however updates have been infrequent.</p>		

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1. Failing septic systems (cont.)		v. Enforce against failing, improperly used or un-maintained systems under OAR 340-71-130(3).	Benton County Environmental Health under general fund	Existing strategy upon discovery of failing septic systems under complaint tracking system.	Ongoing	N/A	<i>Could be expanded by annual maintenance and inspection of existing systems that may identify additional failing systems.</i>	
		v. Correct area-wide failures collaboratively with neighborhood groups, municipalities, and water and sewer system providers.	Project specific grants or private funding (LIDs); general fund for staff time	Existing strategy – Environmental Assessment Priority List (EAPL) 2002 for tracking problem areas	Project specific	N/A		
	b. Maintain standards for proper siting of septic systems.	i. Currently administering OAR 340-71 & 73 under contract between DEQ and Benton County	Funded by On-Site Sewage disposal fees and general fund	Existing strategy – number of permits are tracked through DEQ report	Ongoing	N/A	Existing Program	
	c. Educate property owners on proper use and maintenance.	ii. Currently provide presentations, handouts, phone consultations, office consultations, and field consultations. Include on website.	Funded by On-Site Sewage disposal fees and general fund	Existing strategy	Ongoing	N/A	Existing Program	
		iii. Explore potential for collaborative workshops with OSU Extension regarding septic system use and maintenance.	Funded by On-Site Sewage disposal fees and general fund	Communication with OSU Extension and a decision on whether to pursue workshops. If yes, then successful completion of one workshop annually.	First workshop by May 2009.	Decision on collaboration made by January 2009. Notification/ advertising of workshop in April 2009.		

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2. Bacteria carried to waterways in storm runoff.	a. Protect riparian vegetation to filter runoff.	i. Develop riparian protection regulations via Goal 5.	Staff workload allocation; existing general fund budget.	Adoption of Comprehensive Plan and Development Code provisions that comply with Statewide Planning Goal 5.	July 2010	Draft ready for public hearings – January 15, 2010.		
		ii. Establish BMPs for County activities.	None expected (on-going program)	Annual review and update for program compliance.	Ongoing	N/A	Many BMP's are in place and functioning.	
		iii. Staff training on BMPs for County activities.	On-going program/existing funding source.	Annual training of staff who implement or oversee BMPs.	Ongoing.	N/A	Existing program.	
		iv. Educate public via brochure and County website.	Staff time to create webpage; existing general fund budget.	Brochure available at customer counter; webpage up and running.	January 2009	N/A	“Taking Care of Streams” brochure already in Planning customer service area.	
	b. Protect wetlands to filter stormwater.	i. Continue to protect significant wetlands using overlays in place.	None expected (on-going).	Land development activities continue to comply with overlay zone standards.	Ongoing	N/A	Current program.	
		ii. Establish protections for any new wetlands identified as significant under Goal 5.	Consider proposals on a case-by-case basis; not anticipated to require substantial expense or staff time.	Protections adopted for any wetland determined significant under Goal 5.	As cases arise, protections adopted within 6 months of significance determination.	N/A	Current program.	
		iii. Notify DSL when development proposed in any wetlands.	No impact; current practice.	100% compliance with this code standard.	Ongoing	N/A	Current program.	
		iv. Collaborate to protect wetland functions.	Staff time; existing general fund budget.	Partnering on projects	Project Specific	N/A		

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2. Bacteria carried to waterways in storm runoff (cont.)	c. Educate owners to keep livestock manure far from streams	i. Give fact sheet to every owner applying for livestock-related building permit.  ii. Have fact sheet at planning counter and on website.  iii. Coordinate with Oregon Dept. of Agriculture regarding small CAFOs/ livestock in residential zones; establish shared understanding regarding regulatory authority and referral process.	Staff time to create fact sheet. Photocopies. Existing general fund budget.	Fact sheets given with every relevant permit.	January 2009	Draft fact sheet by November 2008.	Currently compiling good sources and information.	
		iv. Collaborate with SWCD and Extension on targeted outreach when problem sites identified.	Staff time (small amount)	Referral procedure functions as specified when problem sites are identified.	Ongoing.	Coordinated understanding in place (written internal policy) regarding referral of issues to these agencies by March 2009.	Currently compiling good sources and information	
	d. Reduce animal waste from County Parks	i. Educate owners with signs and brochures. Have bags and garbage cans available to make it easier to scoop poop.	Already implemented.	Already implemented.	Already implemented	Already implemented	Already implemented	

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2. Bacteria carried to waterways in storm runoff runoff (cont.)		ii. Educate horse riders with signs discouraging horse riding in Beazell Memorial Forest.	Already implemented.	Already implemented.	Already implemented	Already implemented	Already implemented	
	e. Reduce dog waste from kennels and other sources	i. Provide applicants for kennels and mail to known kennel operators a BMP sheet. Put info on website. ii. Formalize procedure to ensure commercial kennel waste is disposed of properly. Develop and implement revised procedure for approval of dog kennels; contact known existing kennels and confirm sanitary waste disposal.	Staff time to create fact sheet and put on website. Photocopies. Mailing costs (minimal). Staff time (general fund).	Fact sheet mailed to operators and available to applicants. Kennels are disposing of waste in a sanitary manner. Track response to complaints.	January 2009 June 2009	Draft fact sheet by November 2008. Develop revised procedure by January 2009. Develop a list of known kennels by November 2008.	Currently compiling good sources and information.	
		iii. Establish stream setbacks for kennel and impoundment area and manure storage area; draft amendment to Development Code, notify property owners, conduct hearings.	Staff time (general fund).	Adopted code amendments.	July 2010	Draft ready for public hearings – January 15, 2010.		

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2. Bacteria carried to waterways in storm runoff (cont.)		iv. Provide brief info. handout to dog owners with their dog license.	Staff time and photocopying. General fund. Small expense.	Procedure in place to distribute with every dog license.	July 2008	Begin coordination with Records Division.		
	f. Increase the ease of the public reporting problems they observe	i. Stormwater page and violation reporting phone number on the County website	Staff time to create webpage. Staff time to respond to phone calls.	Presence of webpage and phone number.	January 2009.	N/A	Currently compiling good sources and information.	
3. Insufficient instream water quantities during summer.	a. Establish development standards to minimize impacts to floodplain, wetlands and riparian areas; require no net loss of water quality or quantity.	i. Explore ways to minimize development impacts on dry-season water quantity; develop programs as appropriate.	Initial scoping accomplished by existing staff. Subsequent program development will need to include identification of funding source.	Adoption of development standards into Development Code (if determined feasible).	January 2012	Scoping complete January 2011.		
	b. Collaborate to enhance summer flows.	i. Participate in/support efforts by watershed councils to address low flow. ii. County will lead multi-jurisdictional effort to develop a water policy and plan.	Staff time to attend meetings and develop programs.  Position needed to coordinate; participation by staff in several departments and the BOC. Grant funding, cooperative effort with OSU, expected to cover most of the coordination cost.	County involvement. (County does not control this process.)  Formal acknowledgment of plan by BOC; inclusion of strategies to address low summer flow.	ongoing.	N/A		
						Initial draft of plan; January 2010.	<i>Project underway. Stakeholders and advisory committees being recruited.</i>	

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3. Insufficient instream water quantities during summer (cont.)	c. Encourage groundwater conservation.	i. Educate via brochures and County website	Staff time to create webpage and find brochures; existing general fund budget.	Presence of webpage; brochures at customer counter.	January 2009	N/A		
4. Other sources throughout the watershed.	a. Promote watershed practices to protect and enhance water quality, collaborating with others	Support watershed councils, Oregon Dept. of Agriculture, Oregon Dept. of Forestry, BSWCD in watershed activities that are outside Benton County's direct authority.	Staff workload allocation; existing general fund budget.	Not tied to a specific timeframe or measurable activity; is rather a way of doing business.	ongoing.	N/A		
		Implement TMDL and NPDES Phase II documents	Various sources, identified within the documents.	Adherence to products and timelines specified in the plans.	See plans.	See plans.		
	b. Manage water resources on a watershed scale.	Perspective to be incorporated into various specific programs.	N/A	Not tied to a specific timeframe or measurable activity; is rather a way of doing business.	ongoing.	N/A		

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<b>POLLUTANT:</b> Temperature	<b>STRATEGY</b> <i>What is being done, or what will you do, to reduce and/or control pollution from this source?</i>	<b>HOW</b> <i>Specifically, how will this be done?</i>	<b>FISCAL ANALYSIS</b> <i>What is the expected resource need? Are there existing resources budgeted? If not, where will the resources come from?</i>	<b>MEASURE</b> <i>How will you quantitatively or qualitatively demonstrate successful implementation or completion of this strategy?</i>	<b>TIMELINE</b> <i>When do you expect it to be completed?</i>	<b>MILESTONE</b> <i>What intermediate goals do you expect to achieve, and by when, to know progress is being made?</i>	<b>STATUS</b> <i>Include summary and date.</i>
1. Excess solar radiation due to lack of shading vegetation.	a. Limit removal of riparian vegetation.	i. Develop riparian protection regulations via Goal 5.	Staff workload allocation; existing general fund budget.	Adoption of Comprehensive Plan and Development Code provisions that comply with Statewide Planning Goal 5.	July 2010	Draft ready for public hearings – January 15, 2010.	
		ii. Establish BMPs for County activities.	None expected (ongoing program)	Annual review and update for program compliance.	Ongoing	N/A	<i>Many BMPs are in place and functioning. Annual ongoing training of staff</i>
	b. Encourage riparian planting.	i. Educate via County website	Staff time to create webpage.	Presence of webpage.	January 2009.	N/A	
		ii. Incentives developed as part of Goal 5 riparian protection program (see above)	Staff workload allocation; existing general fund budget.	Adopted program.	July 2010.	Draft ready for public hearings – January 15, 2010.	
		iii. Coordinate/ collaborate with watershed councils, SWCD, others. Encourage/ promote tree sales.	Staff time; coordination for grants	Number of trees sold. Grants received.	Ongoing	N/A	Have already agreed to cooperate with SWCD.
		iv. Incorporate riparian restoration and preservation in parks management plans.	Grant funding may be available for materials and activities above and beyond typical management activities.	When management plans are developed or updated, priority given to riparian restoration/ preservation.	Plans are updated on an irregular basis; new plans developed when new properties acquired.	N/A	



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2. Excess solar radiation due to lack of shading vegetation (cont.)		v. Seek funding to assist in channel enhancement projects. (County Parks)	Grant funding may be available for materials and activities above and beyond typical management activities.	When management plans are developed or updated, priority given to riparian restoration/preservation.	Plans are updated on an irregular basis; new plans developed when new properties acquired.	N/A			
2. Insufficient instream water quantities during summer.	a. Establish development standards to minimize impacts to floodplain, wetlands and riparian areas; require no net loss of water quality or quantity.	i. Explore ways to minimize development impacts on dry-season water quantity; develop programs as appropriate.	Initial scoping by existing staff. Subsequent program development will need to include identification of funding source.	Adoption of development standards into Development Code (if determined feasible).	January 2012	Scoping complete January 2011.			
	b. Collaborate to enhance summer flows.	i. Participate in/support efforts by watershed councils to address low flow. ii. County will lead multi-jurisdictional effort to develop a water policy and plan.	Staff time to attend meetings and develop programs.	County involvement. (County does not control this process.)	Ongoing	N/A			
			Position needed to coordinate; participation by staff in several departments and the BOC. Grant funding, cooperative effort with OSU, expected to cover most of the coordination cost.	Formal acknowledgment of plan by BOC; inclusion of strategies to address low summer flow.	TBD	Initial draft of plan; January 2010.	<i>Project underway. Stakeholders and advisory committees being recruited.</i>		
	c. Encourage groundwater conservation.	i. Educate via brochures and County website	Staff time to create webpage and obtain brochures; existing general fund budget.	Presence of webpage; brochures at customer counter.	January 2009	N/A	<i>Already have “water efficient plants for Willamette Valley” booklet.</i>		

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4. Other sources throughout the watershed.	a. Promote watershed practices to protect and enhance water quality, collaborating with others  b. Manage water resources on a watershed scale.	Support watershed councils, Oregon Dept. of Agriculture, Oregon Dept. of Forestry, BSWCD in watershed activities that are outside Benton County's direct authority.  Perspective to be incorporated into various specific programs.	Staff workload allocation; existing general fund budget.	Not tied to a specific timeframe or measurable activity; is rather a way of doing business.	ongoing.	N/A			
			N/A	Not tied to a specific timeframe or measurable activity; is rather a way of doing business.	ongoing.	N/A			

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<b>POLLUTANT: Mercury</b>		<b>Benton County TMDL Implementation Tracking Matrix</b>						
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1. Soil erosion.	a. Reduce erosion caused by livestock	i. With every livestock-related building permit, hand out a fact sheet	Staff time to create fact sheet. Photocopies.	Fact sheet given with every relevant permit.	January 2009	Draft fact sheet by November 2008.	Currently compiling good sources and information.	
	b. Implement NPDES Stormwater Plan.	i. Add erosion prevention information to County website	Staff time to create webpage. (Use existing info from other sources as possible.)	Presence of information on website.	January 2009	Information gathered by November 2008.	Currently compiling good sources and information.	
		ii. Develop construction site erosion control program.	Extensive staff time. Bundle with NPDES efforts.	Adoption of new Ordinances and Comp Plan changes	March 2011	Staff Review Board Review	In development	
		iii. Coordinate with local partners to teach private property owners about erosion control and mercury sources	Staff time to meet with partners and develop strategies. Printing and layout cost on informational brochure.	Track the number of contacts made with private property owners.	July 2009	Develop brochure by January 2009. Prioritize a contact list with partners.	Ongoing	
		iv. Keep County staff certifications current in Erosion and Sediment Control practices	Staff time and cost for training every 3 years. Existing practice.	Training is documented.	June 2008	N/A	N/A	
2. Air pollution settling to the ground.	a. Reduce fossil fuel combustion	i. Provide heating and insulation fact sheet in public waiting areas	Staff time to find fact sheet (DOE?). Photocopies.	Presence of fact sheet.	May 2009	Presence of fact sheet in waiting areas		
		ii. Coordinate efforts with the Sustainability Coalition.	Minimal staff time.	Mutual encouragement; avoidance of redundant efforts.	Ongoing	N/A		

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3. Landfills.	a. Encourage recycling of mercury-containing products	Add recycling information to County website. Ask the Solid Waste Advisory Council to help publicize important recycling events.	Staff time to add some comments and link to local disposal companies' recycling information.	Presence of information and link on website. Occasional posting of recycling events.	May 2009	N/A		
	b. Solid Waste Advisory Committee work with landfill operator to minimize mercury pollution.	Committee and operator review mercury pollution risk and available monitoring; develop procedures to minimize pollution.	Existing committee; no significant funding need anticipated.	Committee report to Board of Commissioners on results of problem analysis and the procedures implemented.	January 2010	Initiate process (on committee agenda) by January 2009		