

Action Category II.A. Create appropriate mechanisms to monitor and measure effort, progress, and environmental conditions.

Priority	Action Item	Readiness			Approach & Sequencing	Responsible Parties		Obstacles	Solutions	Currently Funded? If so, source of funding?		Resource Amounts/Type	Additional resources needed?	Range of needed increase	Action Completed by:
		Organizational Commitment	Supporting Products	Level of Understanding		Primary Parties	Secondary Parties			Source	Recipient				Month, Year
#1	II.A.a Fill the knowledge gaps about BMPs, performance standards, and the costs.	High. The University of Minnesota is committed and moving forward.		Moderate: Improved standardization of data crunching	Already begun.	<ul style="list-style-type: none">U of MSSC	<ul style="list-style-type: none">Other statesEPA	<ul style="list-style-type: none">Synthesizing data from national sourcesLack of research on Met Council stream data to assess BMP effectivenessImplementation often occurs w/o research and assessment procedures	<ul style="list-style-type: none">Establish a multi-agency, multi-interest research council to identify research needs and fundingImprove technology transfer for interstate and EPA sources of information.Conduct research on BMPs based on Met Council database, augmented with other regional databases.Research on BMP performance should be linked to implementation	Yes; U of M and MPCA and partners leveraging funds	U of M and MPCA and partners leveraging funds	\$2MM	Need to keep the funding stable	Undetermined at this time	
#2	II.A.b. Fill the knowledge gaps in watershed/basin management and water quality standards.	High: Being focused on by all levels of government		High. We need to integrate CWLA basin monitoring activity, e.g., look at eco-regions, and delivery ratios	Already begun.	<ul style="list-style-type: none">MPCA	<ul style="list-style-type: none">SSCCWC	<ul style="list-style-type: none">Data management and storage and updated software assessment tools	<ul style="list-style-type: none">Find a home for inventory management	No funding for integrated activity or needed software		Not funded at this time	\$125K/Y	Undetermined at this time	
#3	II.A.c. Improve monitoring programs and identify performance indicators.	High. Metro-wide monitoring is underway.	A group needs to commit to permanently house the BMP monitoring data and the assessment software needs an upgrade.	Moderate: Still need to understand how O&M requirements will be met	Already begun.	<ul style="list-style-type: none">WMOs/WDsMPCA	<ul style="list-style-type: none">Cities and counties	<ul style="list-style-type: none">Standardizing protocols and databasesExisting sources of monitoring data have not been fully analyzed.	<ul style="list-style-type: none">Better coordination/standardization between partiesBy analyzing existing sources of monitoring data we would gain insight on how to improve monitoring protocols.	Yes, local revenue and general fund.	State, WMOS/WDs, METC, counties		TBD	Undetermined at this time	
#4	II.A.d. Develop consensus on the appropriateness, design, and costs of BMPs.	Medium. This is a part of the UM activity mentioned in #1 above. Accomplishing will require a long-term commitment.		Medium: Diverse geology/soils are understood but more work needs to be done on defining consensus approaches	Long-term activity.	<ul style="list-style-type: none">U of M	<ul style="list-style-type: none">Engineering consultants	<ul style="list-style-type: none">Synthesizing data from national sources and pulling the parties together	<ul style="list-style-type: none">Better coordination/standardization between parties	Yes, from LCCMR and/or CWLA/CWC	U of Minnesota	\$400K/Y	Same amount for 10 years (3 years into the activity)	Undetermined at this time	

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		<i>Organizational Commitment</i>	<i>Supporting Products</i>	<i>Level of Understanding</i>		<i>Primary Parties</i>	<i>Secondary Parties</i>			<i>Source</i>	<i>Recipient</i>				<i>Month, Year</i>
#5	II.A.e. Identify design and ordinance standards.	Low level of commitment and understanding	Products exist from various sources, but not organized or catalogued as needed	Low	Not dependent on any other Action Items, could be addressed concurrently with I.A.a.	<ul style="list-style-type: none">LGUsWMOs/WDsSSCMPCADNR	<ul style="list-style-type: none">BWSRMETC	<ul style="list-style-type: none">Cities will not be able to meet water quality standards with structural BMPs alone.Resource constraints	<ul style="list-style-type: none">Include source reduction efforts (sources include road salt, landscape nutrients, erosion) in implementation efforts.Adequate funding	Yes, LID through MPCA	LGUs WMOs/WDs	>\$50 K	Additional \$50 K	Undetermined at this time	
#6	II.A.f. Develop an appropriate credit system that reflects societal costs and benefits.	Low. Needs to move forward but there has been no activity.	The CWC initiative to develop a basic set of BMPs that everyone can use can be an element of this approach	Low: There has been no focus on this topic	Yet to be determined	<ul style="list-style-type: none">CWCMPCALGUsWMOs/WDs		<ul style="list-style-type: none">Assembling the parties to undertake the task	<ul style="list-style-type: none">Provide background information to move issue forward in consistent manner	This is an organizational process				Undetermined at this time	
#7	II.A.g. Identify the key potential effects of climate change on stormwater management.	High. Moving forward with NOAA contract funded by 7 mid-western states to update TP 40		Low	Long-term research activity.	<ul style="list-style-type: none">NOAA – 9 Midwest states are updating Technical Paper #40		<ul style="list-style-type: none">Still need national leadership to detect broad patterns	<ul style="list-style-type: none">Understand the confounding elements	Seven states (incl. MN)		\$1.6MM	None	Undetermined at this time	