

Appendix C: Monitoring Strategy Five and Ten Year Plan

Monitoring studies and support material for short and mid-range planning	Study Design	SOPs	2015 (FY16)	2016 (FY17)	2017 (FY18)	2018 (FY19)	2019 (FY20)	2020 (FY21)	2021 (FY22)	2022 (FY23)	2023 (FY24)	2024 (FY25)
Statewide	Status	Status	#sites	#sites	#sites	#sites	#sites	#sites	#sites	#sites	#sites	#sites
Rivers												
Long Term Trend River Water Quality Monitoring Network	FINAL	50% Complete	44	44	44	44	44	44	44	44	44	44
Biotic Integrity River Sites	FINAL	100% Complete	22	0	0	0	0	0	0	0	0	0
Holistic Large River Monitoring Network	In Development	50% Complete	0	20	20	20	30	30	30	30	30	30
National Rivers and Streams Assessment – Probabilistic Study	FINAL		0	0	0	50	40	0	0	0	50	40
Streams												
Wadeable Trend Reference Streams	FINAL	50% Complete	44	44	44	44	44	44	44	44	44	44
Natural Community Stratified Random Monitoring Program	FINAL	50% Complete	50	50	50	50	50	50	50	50	50	50
Targeted Watershed Approach – Streams	DRAFT	50% Complete	48	48	48	48	48	48	48	48	48	48
Targeted Watershed Approach - 319 Projects - Streams	DRAFT	50% Complete	72	72	72	72	72	72	72	72	72	72
Water Action Volunteers - Stream Monitoring	FINAL	100% Complete	200	100	100	100	100	100	100	100	100	100
Stream Baseflow Monitoring	DRAFT	50% Complete										

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Lakes												
Probabilistic Survey (National Lakes Assessment)	2012, 2016	2012, 2016 (100%)	0	0	50	0	0	0	0	50 (100)	0	0
Long Term Trend Lakes (LTT Lakes)	100%	50% Complete	62	62	50	50	50	50	50	50	50	50
Sentinel Lakes among the LTT Lakes	0% (new)	0% (new)	0	0	8	8	8	8	8	8	8	8
Aquatic Plant Reference Lakes	New	100% Complete	0	12	12	12	12	12	12	12	12	12
Citizen Lake Monitoring Network	100%	100% Complete	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Satellite Monitoring - Secchi	100%	50% Complete	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000
Directed Lake Surveys (and follow-up monitoring)*	New	30% Complete	31	40	40+	40+	40+	40+	40+	40+	40+	40+
Lake Level Monitoring	New	90% Complete	85	105	115	120	120+	120+	120+	120+	120+	120+
Wetlands												
Planned Floristic Quality Assessment (FQA) Benchmark Surveys (W1)	FINAL	(W1) 100% Complete	200	100	140							
Planned Floristic Quality Assessment (FQA) Benchmark Surveys (W2)	FINAL	2016 W2										
Planned Floristic Quality Assessment (FQA) Benchmark Surveys (W3)	FINAL	2018 W3				Bench Marks						
Future FQA Surveys in Targeted Watershed Assessments (assume 3 TWAs with 50 sites each)	NA	50% Complete	NA	NA	NA	NA	150	150	150	150	150	150
Watershed Approach Wetland Functional	PARTIAL	50% Complete	50	100	Finalize method	NA	NA	NA	NA	NA	NA	NA

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Assessment (WAWFA) - Ground truth Surveys												
Future Watershed Approach Wetland Functional Assessment Surveys in TWAs	NA	NA	NA	NA	NA	150	150	150	150	150	150	150
Planned National Wetland Condition Assessment (2016) - Probabilistic	FINAL	50% Complete		21	NA	NA	NA	NA	21	NA	NA	NA
AIS												
AIS Incident Reporting												
AIS Probabilistic (Baseline Statewide Monitoring–Early Detection)												
AIS Water Quality Biologist Stream Monitoring												
Citizen Lake Monitoring Network – Aquatic Invasive Species												
Aquatic Invasive Species–Project Riverine Early Detection												
Aquatic Invasive Species–Snapshot Day (pilot)												
Mississippi River												
Wisconsin's Long Term Trend Monitoring												
Environmental Management Program (EMP) Long Term Resource Monitoring Program (LTRMP)												

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Zebra Mussel Longitudinal Studies												
Large River Soft Sediment Macroinvertebrate Sampling												
Habitat Project Evaluation												
Great Lakes												
Cladophora/Nutrient												
Contaminated Sediment												
Great Lakes Fishery Assessment												
Lake Michigan Major Tributary Phosphorus Loading												
Pathogen Indicator												
Public Water Intake Monitoring												
Cross Program Monitoring or Special Study Projects												
Background Concentrations - Permits												
Baseflow data collection												
BMP Evaluation												
Contaminants in Fish Tissue												
Enforcement, Spills and Kills - Permits												
Groundwater Monitoring – Quantity and Quality												
Nine Key Element Plan Development												

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Permit Compliance - Permits												
Permit Compliance, Innovation in Effluent Limit Determination - Permits												
Public Beach Health Surveys– Coastal Surveys												
Sediment Screening, Monitoring												
Source Water Assessment Monitoring												
Springs Inventory												
TMDL Development – Runoff Dominated Watersheds												
Total Maximum Daily Load (TMDL) Development [Modeling, Load Allocation]												
Waterbody Use Designation												
WQS Development, Revision, or Evaluation												
** Indicates number of sites sampled, whether Study Design Document is complete and if all SOPs are written up and complete.												
"Complete" means the write ups are final and the documents are publicly available.												
*Directed Lakes surveys included 19 lakes for follow-up chemistry monitoring and 12 lakes that included plant and habitat surveys												