TABLE OF CONTENTS

Executive Summary	i
Index of Figures	
Foreward	
Section 1— Introduction	
National Nutrient Load Concerns and Priorities	
Gulf of Mexico	8
Is Progress Being Made (Basinwide)?	10
What about in Indiana?	
Nutrient Load Concerns on Indiana's Waters	
Indiana Drainage Overview	
The Great Lakes	
Guiding Principles	
Section 2 – Engage Stakeholders and Partners	18
Section 3 – Watershed Prioritization and Characterization	
Prioritize 8-digit HUC Watersheds	21
Further Prioritization	
Section 4 – Water Quality Monitoring in Indiana's Waters	
Water Quality Standards	29
IDEM Water Monitoring Programs	
Surface Water Monitoring Programs	29
Ground Water Monitoring Programs	
Data Sharing & Inventory	
IDEM Lake Monitoring Data	
Harmful Algae Bloom (HAB) Monitoring Data	
CWA 305(b) Water Quality Assessments	
303(d) list of Impaired Waters	
Total Maximum Daily Loads (TMDLs)	40
Section 5—Nutrient Criteria	
Narrative Limits	42
Numeric Criteria	
Section 6 – Practices to Reduce Point Source and Non-Point Sou	rce Pollution
Point Source Pollution	
Point Source (Regulated) Strategy Objectives	44
Non-Point Source Pollution	
Non-Point Source Strategy Objectives	45

Practices to Reduce Non-Point Source Pollution	47
Development of a Science Assessment	
Section 7 – Programs and Projects Supporting Nutrient Reduction	
Point Source/Regulatory Programs	
National Pollutant Discharge Elimination System (NPDES)	51
Non-Point Source/Regulated Programs	JI
Wellhead Protection Program	52
Confined Feeding Operations (CFOs) Program	
Concentrated Animal Feeding Operations (CAFOs) Program	
Fertilizer and Detergent Regulations	
Storm Water Runoff Programs	
Non-Point Source/Non-Regulated (Voluntary) Programs	55 56
Indiana State Department of Agriculture Programs (ISDA)	50
Conservation Reserve Enhancement Program (CREP)	56
INfield Advantage (INFA)	
Clean Water Indiana (CWI)	
Indiana Department of Natural Resources (IDNR)	
Lake and River Enhancement (LARE) Grant Funding	61
Healthy Rivers Initiative (HRI)	
Indiana Department of Environmental Management (IDEM)	
IDEM Section 319(h) Grant Funding	64
IDEM Section 205(j) Grant Funding	
Clean Water Act (CWA) Section 106 Supplemental Funding	
USDA, Natural Resources Conservation Service (NRCS)	
Conservation Stewardship Program (CSP)	69
Environmental Quality Incentives Program (EQIP)	
NRCS Easement Programs	
Agricultural Conservation Easements Program (ACEP)	70
Wetland Reserve Program (WRP)	
Agricultural Land Easements (ALE)	
NRCS Program Initiatives	
Regional Conservation Partnership Program (RCPP)	70
Mississippi River Basin Initiative (MRBI)	
National Water Quality Initiative (NWQI)	
Great Lakes Restoration Initiative (GLRI)	
Joint Chiefs Landscape Restoration Partnership	
Wetland Reserve Enhancement Program (WREP)	
USDA, Farm Service Agency (FSA)	
Conservation Reserve Program (CRP)	74
Safe Acres for Wildlife Enhancement (SAFE)	
Agricultural Initiatives	75
Indiana's Conservation Partnership Soil Health Philosophy	75
A System's Approach of Conservation Practices	76

Conservation Cropping Systems Initiative (CCSI)	78
Indiana Agriculture Nutrient Alliance (IANA)	
Market-Based Agricultural Initiative	
Ohio River Basin Water Quality Trading Project	80
Agricultural Landowner Educational Resources	
Section 8 – Measuring Impacts	
Indiana's Tillage and Cover Crop Transects	82
EPA Region 5 Nutrient Load Reduction Modeling and Mapping: Watershed-	
Wide	87
Strengthening and Improving Our Method	
Significant Waterbodies	93
GIS Story Maps for Indiana's Ten Major River & Lake Basins	94
Performance Measures Monitoring	94
Adaptive Management	95
Section 9 – Milestones and Action Items	96
Section 10 – "What you can do to protect water quality in Indiana"	104
Appendix A	
Acronyms	108
Appendix B	
Permitted Facilities with Water Quality Monitoring for Ammonia and	
Phosphorus – Maps	111
Appendix C	
Table of IDEM monitoring activities for 2018-2019	122