

Quality Assurance Project Plan

SER_06_CMP12 CBSM of Unnamed Tributary (Prairie Stream) to Lake Michigan

Quality Control Specialist: KATHRYN M VAN GHEEM

- Purpose:** The Water Action Volunteers Program involves citizen monitors in the process of collecting water quality data used by the DNR to assist in making management decisions. Goals of the program include collecting high quality data that can be used for management decisions, building relationships between DNR staff and citizen monitors, and assessing areas in need of additional monitoring, restoration and/or protection. Ultimately, volunteer participation in this project aids DNR staff by allowing for increased capabilities to monitor streams. Communities and the DNR can use this water quality information to make decisions that affect the management of streams throughout Wisconsin.
- Objective:** Data collected by Water Action Volunteers can be used by DNR staff as screening tools. The process of data collection helps Wisconsin citizenry enhance their understanding of data collection and in many cases, move to more sophisticated data collection work including biological and additional physical site data..
- Outcome:** Identification of the level of phosphorus in the Unnamed Tributary. This, combined with possible source identification conducted during the monitoring season, will allow for the creation of a remediation approach.
- Comments:** This project is a cooperative effort between Scott Dizack (a long-term CBSM volunteer), The Johnson Foundation at Windspread, and students at the Prairie School in Wind Point.
- Sampling will be conducted on a bi-weekly basis, through September 1st, 2011, at three locations on the stream. Sampling parameters will be DO, pH, Temp, TSS, Total Phosphorus, and water clarity.

Study Design

The Level 2 stream monitoring sampling plan is consistent with statewide baseline monitoring guidelines laid out in the DNR'

Quality Assurance Measures

Program Coordinator or Local Coordinators visit with 10% of volunteer stations annually to conduct side-by-side monitoring o

People

Name	Role	Status
Scott and Maya Dizack	Team member	Active
Craig D Helker	Coordinator of the project	Active
KATHRYN M VAN GHEEM	Quality Control Specialist	Inactive

Summary

Number of Monitoring Stations: 3

Number of Fieldwork Events by Status: Complete 59

Number of Quality Control Samples by Type:

Methods

- CBSM Tier 3 Field Methods for Stream Monitoring
- Citizen Based Stream Monitoring with YSI DO Meter
- Water Grab Sample (2005) Guidelines and Procedures

Equipment

Equipment Type	Description
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Form Parameters

Type	Parameter	Description
DNR_STORET	300	DISSOLVED OXYGEN FIELD
DNR_STORET	301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %
DNR_STORET	400	PH FIELD
SWIMS	90005	Primary/Safety/Other Date
DNR_STORET	10	TEMPERATURE FIELD
DNR_STORET	61190	TRANSPARENCY TUBE
SWIMS	90006	Transparency Tube Rep 2
SWIMS	90000	WATER COLUMN APPEARANCE
SWIMS	90003	WATER LEVEL (VISUAL)
SWIMS	90007	Weather

Intended Parameters

Type	Parameter	Description
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Collected Parameters

Type	Parameter	Description	# Results
DNR_STORET	32	CLOUD COVER	2
DNR_STORET	300	DISSOLVED OXYGEN FIELD	40
DNR_STORET	301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	40
DNR_STORET	400	PH FIELD	46
DNR_STORET	665	PHOSPHORUS TOTAL	15
SWIMS	90005	Primary/Safety/Other Date	39
DNR_STORET	530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	15
DNR_STORET	136	TEMPERATURE AT LAB	15
DNR_STORET	10	TEMPERATURE FIELD	44
DNR_STORET	61190	TRANSPARENCY TUBE	44
SWIMS	90006	Transparency Tube Rep 2	41
SWIMS	90000	WATER COLUMN APPEARANCE	42
SWIMS	90003	WATER LEVEL (VISUAL)	42
SWIMS	90007	Weather	42

Lab Fee Budget

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I650JLT	SUSPENDED SOLIDS (EPA METHOD 160.2)	INORGANIC CHEMISTRY	15	\$12.78	\$191.70
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	15	\$23.60	\$354.00