

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: East_TWA_2_2019

Name: Mekan River TWA 2019

Type: Targeted Watershed Approach

Subtype: Protection (Healthy or Vulnerable)

Status: COMPLETE

Start Date: 1/1/2019

End Date: 6/30/2020

Purpose: The purpose of the Mekan River TWA is to collect water quality data in a Healthy but Vulnerable Watershed to provide a better understanding of the current health of the system. [TWA HUC12-040302010703]

Objective: This project will provide the water quality data to establish the current health of the Mekan River in order to serve as a reference for protection. Fish IBI surveys will be conducted at 13 locations, 12 on the Mekan mainstem and 1 on Little Pine Creek. In 2017, macroinvertebrate samples were collected at these Mekan River locations. This project will fill out that assessment with fish IBI surveys. Thermistors will be placed at each of the 13 fish IBI locations. Two WBIC will be monitored as part of this project:
Mekan River 155000
Little Pine Creek 157400

Comments: This is a 1-year project

Outcome: Water quality monitoring will be conducted at 13 locations and a final report will be written by 12/31/2019.

All water quality monitoring will be conducted by Water Resources staff. All fish data will be entered into the FMDB by Water Resources staff by 12/31/2019.

Study Design: All water quality monitoring will be conducted by Water Resources staff. All fish data will be entered into the FMDB by Water Resources staff by 12/31/2019.

Fish surveys will be conducted at 13 locations. Seven fieldwork days will be needed to complete these surveys from July 1st through September 15th, FY20. Thermistors will be deployed at 13 locations. Two field days will be needed to deploy and retrieve these units (1 FY19, 1 FY20).

QA Measures: Standard DNR protocols will be followed. A final report will be written and attached to this project by 12/31/2019.

People

| Name | Role | Status | Start Date | End Date | Organization | Comments |
|--------------------|-------------|----------|------------|------------|---------------|----------|
| BOLHA, DAVID A | COORDINATOR | ACTIVE | 1/1/2019 | 6/30/2022 | Wisconsin DNR | |
| Helmuth, Lisa D | COORDINATOR | INACTIVE | 11/23/2019 | 12/28/2022 | Wisconsin DNR | |
| Kleeman, ZACHARY K | TEAM_MEMBER | COMPLETE | 1/1/2019 | 1/15/2020 | Wisconsin DNR | |

Project Statuses

| Date | Reported By | Status | Comments |
|-----------|-------------|---------------------------|---|
| 2/15/2019 | DAVID BOLHA | Proposed | |
| 4/11/2019 | DAVID BOLHA | Active | |
| 1/16/2020 | DAVID BOLHA | Progress: 50-75% Complete | Water levels too high in 2019 to conduct about half of the planned fish surveys. Plan to conduct those remaining fish surveys prior to 6/30/2020. |
| 1/14/2021 | DAVID BOLHA | Final Report Needed | |

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|-----------|-------------|---------------------|---|
| 1/10/2022 | DAVID BOLHA | Final Report Needed | Tow barge surveys missed in 2020 were completed in 2021. Final Report needed. |
| 1/17/2023 | DAVID BOLHA | Final Report Needed | Report nearly completed |
| 2/28/2023 | DAVID BOLHA | Complete | Final Report added to the project on 2/28/2023 |

Project Status Detail

Answer Set: DEFAULT

| Question | Answer |
|--|--|
| 1. Number of Sample Sites (Enter the station IDs if you know them). | 14 Sample locations 10011387, 10029369, 10029345, 10010707, 10033877, 10010709, 10020692, 10049295, 10028746,10041822, 10049297, 10039319, 10030495, 10049296 |
| 2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project). | 9 Total Sampling Events 7 for Fish Surveys 2 for Thermistor deployment and retrieval |
| 3. Proposed Dates for Sample Collection | Thermistor deployment on day in FY19, & days of fish surveys in FY20, One day for Thermistor retrieval |
| 4. List applicable databases and who will enter data? | All fish data will be entered by water resources staff by 12/31/2019 in the FMDB. |
| 5. Did you receive competitive projects funding in the previous year? | No |
| 6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not? | |
| 7. Reviewer Notes: Identify questions or issues with project (use during review period) | |
| 8. Reviewer Decision: Is this project recommended for funding? | |

Actions

| Action | Detailed Description | Start Date | End Date | Status |
|---------------------------------------|----------------------|------------|-----------|-------------|
| Monitor Targeted Watershed Area (TWA) | Mecan TWA Protection | 1/1/2019 | 6/30/2020 | IN_PROGRESS |

| Details: Parameter | Value/Amount | Units | Comments |
|-------------------------------|--------------|-------|----------|
| Degraded Biological Community | | | |
| Report Writeup | | | |
| Total Nitrogen | | | |
| Total Phosphorus | | | |
| Total Suspended Solids | | | |

Monitoring Stations

| Station ID | Name | Comments |
|------------|-------------------------------------|----------|
| 10011387 | Little Pine Creek - Czech Court | |
| 10055762 | Little Pine Creek US County JJ | |
| 10049315 | Little Pine Creek at 14th Ave | |
| 10029369 | MECAN RIVER AT DIXIE AVE | |
| 10029345 | MECAN RIVER at CTH B | |
| 10010707 | Mecan River - 11th Rd Ibi Station 2 | |

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|----------|---|--|
| 10033877 | Mecan River - 9th Ave (downstream) | |
| 10010709 | Mecan River - Cth Y Ibi Station 1 | |
| 10020692 | Mecan River At 100 Yrds South Of W9853 Cypress Rd West Of Cty Y | |
| 10028746 | Mecan River At Dover Avenue | |
| 10041822 | Mecan River at 14th Ave | |
| 10049295 | Mecan River at County E | |
| 10049297 | Mecan River at County GG | |
| 10039319 | Mecan River at Cumberland Rd | |
| 10030495 | Mecan River downstream of HWY 23 bridge | |
| 10049296 | Mecan River-Crystal Lake Access Road | |

Assessment Units

| WBIC | Segment | Local Name | Official Name |
|--------|---------|-------------------|-------------------|
| 155000 | 1 | Mecan River | Mecan River |
| 155000 | 2 | Mecan River | Mecan River |
| 155000 | 3 | Mecan River | Mecan River |
| 157400 | 1 | Little Pine Creek | Little Pine Creek |
| 157400 | 2 | Little Pine Creek | Little Pine Creek |
| 158600 | 1 | Mecan Springs | Mecan Springs |

Lab Account Codes

| Account Code | Description | Start Date | End Date |
|--------------|--------------------------------|------------|------------|
| WQ002 | TARGETED WATERSHED ASSESSMENTS | 3/26/2014 | 12/31/2099 |

Forms

| Form Code | Form Name |
|-------------------------------|---|
| FIELD CHEMISTRY FORM | Field Chemistry Form |
| FISH ASSEMBLAGE 2018 | Fish Assemblage 2018 |
| CBSM-TEST | Macroinvertebrate Field Data |
| MACROINVERT_BASIC | Macroinvertebrate Survey Basic Form |
| WADEABLE_MACRO_FIELD | Wadeable Macroinvertebrate Field & Habitat Data |
| WADEABLE_MACRO_FIELD_B ACK | Wadeable Macroinvertebrate Stream and Watershed Descriptors |

Methods

| Method Code | Method Description |
|-------------------------------------|----------------------------------|
| ELECTROFISHING: BACKPACK SHOCKER | Electrofishing: Backpack Shocker |

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|--------------------------------|--------------------------------|
| ELECTROFISHING: STREAM SHOCKER | Electrofishing: Stream Shocker |
|--------------------------------|--------------------------------|

Fieldwork Events

| Start Date | Status | Field ID | Station ID | Station Name |
|------------|----------|----------|------------|-------------------------------------|
| 8/7/2019 | COMPLETE | | 10049297 | Mecan River at County GG |
| 8/22/2019 | COMPLETE | | 10029345 | MECAN RIVER at CTH B |
| 8/22/2019 | COMPLETE | | 10033877 | Mecan River - 9th Ave (downstream) |
| 9/12/2019 | COMPLETE | | 10010707 | Mecan River - 11th Rd Ibi Station 2 |
| 9/12/2019 | COMPLETE | | 10039319 | Mecan River at Cumberland Rd |

Documents

| Title | Description | Author | Published | Comments |
|--|---|-------------|-----------|----------|
| Mecan River Water Quality Report and Watershed Management Plan | Mecan River Water Quality Report and Watershed Management Plan written by David Bolha based on monitoring conducted in the watershed between 2017 and 2021. | David Bolha | 2/28/2023 | |

Budget

| | | |
|--------------------------|----------------------|---------------------|
| Budget Description: FY19 | Start Date: 3/1/2019 | End Date: 6/30/2019 |
|--------------------------|----------------------|---------------------|

| Code | Description | Quantity | Units | Unit Cost | Total Cost | Comments |
|---------|----------------------------|----------|-------|-----------|------------|-------------------------|
| FTE | FTE Hours | 20 | Hours | \$0.00 | \$0.00 | |
| LTE SAL | LTE Salary | 10 | Hours | \$14.00 | \$140.00 | |
| LTE FR | LTE Fringe | | | | \$34.58 | |
| LTE IND | LTE Indirect | | | | \$28.23 | |
| LTE TOT | LTE Total Cost | | | | \$202.81 | |
| SUPPLY | Supplies | 1 | | \$100.00 | \$100.00 | cables, nuts, WIR paper |
| EQUIP | Equipment | | | | \$0.00 | |
| MILEAGE | Mileage | 300 | Miles | \$0.51 | \$153.00 | |
| MEAL | Meals | 3 | Meals | \$10.00 | \$30.00 | |
| LODGE | Lodging | | | | \$0.00 | |
| TRAVEL | Travel Total | | | | \$183.00 | |
| BUG | Bug Contracts | | | | \$0.00 | |
| OTHER | Other Contracts | | | | \$0.00 | |
| USGS | USGS Costs | | | | \$0.00 | |
| TOTAL | Total Cost (excludes SLOH) | | | | \$485.81 | |

Total WSLH Lab Costs: \$0.00
Total Budget: \$485.81

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|--------------------------|--|----------------------|---------------------|
| Budget Description: FY20 | | Start Date: 7/1/2019 | End Date: 6/30/2020 |
|--------------------------|--|----------------------|---------------------|

| Code | Description | Quantity | Units | Unit Cost | Total Cost | Comments |
|---------|----------------------------|----------|-------|-----------|------------|----------|
| FTE | FTE Hours | 120 | Hours | \$0.00 | \$0.00 | |
| LTE SAL | LTE Salary | 160 | Hours | \$14.00 | \$2,240.00 | |
| LTE FR | LTE Fringe | | | | \$553.28 | |
| LTE IND | LTE Indirect | | | | \$451.67 | |
| LTE TOT | LTE Total Cost | | | | \$3,244.95 | |
| SUPPLY | Supplies | | | | \$0.00 | |
| EQUIP | Equipment | | | | \$0.00 | |
| MILEAGE | Mileage | 1500 | Miles | \$0.51 | \$765.00 | |
| MEAL | Meals | 18 | Meals | \$10.00 | \$180.00 | |
| LODGE | Lodging | | | | \$0.00 | |
| TRAVEL | Travel Total | | | | \$945.00 | |
| BUG | Bug Contracts | | | | \$0.00 | |
| OTHER | Other Contracts | | | | \$0.00 | |
| USGS | USGS Costs | | | | \$0.00 | |
| TOTAL | Total Cost (excludes SLOH) | | | | \$4,189.95 | |

| | |
|-----------------------|------------|
| Total WSLH Lab Costs: | \$0.00 |
| Total Budget: | \$4,189.95 |
| Combined Budgets: | \$4,675.76 |
| Combined WSLH: | \$0.00 |
| Combined Total: | \$4,675.76 |

| Funding | | | | | |
|--------------|--------|------|--------|------------|----------|
| Organization | Source | Type | Amount | Start Date | End Date |