A PROSPECTUS FOR A REGIONAL WATER QUALITY MANAGEMENT PLAN UPDATE

# Chapter 6

# COSTS AND SCHEDULE

## 6.1 COST ESTIMATE AND SCHEDULE

### Cost Estimate

The estimated Regional Water Quality Management Plan Update (RWQMPU) costs are set forth in Table 6.1 and are based upon the scope of work and organization of the plan update recommended in this Prospectus. Costs were calculated based on estimated staff time required to complete each work element, the hourly rates for staff assigned to the work elements, and the attendant overhead costs. Plan update costs were split into three components to help secure funding partners and accommodate staffing requirements and scheduling.

The total estimated cost to complete the RWQMPU is $3.12 million,[1] of which the Southeastern Wisconsin Regional Planning Commission (SEWRPC or Commission) anticipates contributing up to one-third in the form of in-kind services through its normal regional planning program. This leaves a remaining $2.09 million to be secured from other funding sources.

In considering these cost estimates, it must be recognized that precise estimates cannot be made without a detailed Plan design. This is particularly true with respect to the analytical phases of the work; since the depth and detail of the analyses required will become apparent only as the work proceeds. Consequently, the cost estimates among the various work elements presented in Table 6.1 must be considered tentative and subject to change as the work progresses. Overall project costs, however, should not vary greatly from those estimated.

[1] *This total cost assumes the work will be completed from 2028 to 2032.*

**Schedule**

It is estimated that this Plan update would require a minimum of five years to complete. The work program was broken into three phases, with inventory work completed first followed by a summary report. The water quality inventory work for streams, lakes, and groundwater, which would culminate in a SEWRPC technical report, is estimated to be completed in three years (see Figure 6.1). The wastewater inventory work would also be documented in a SEWRPC technical report and is estimated to take two years to complete, as shown in Figure 6.2. Finally, the summary report documenting the analyses relating the inventories to pollution sources (such as land use, population, and climate) and providing recommendations, which would be documented in a SEWRPC planning report, is estimated to take two years to complete (see Figure 6.3). This schedule is subject to revision upon more detailed design of the various components of the Plan update and is heavily dependent upon the cooperation of agencies collecting water quality data and managing wastewater within the Region.

## 6.2 COST ALLOCATION

Because of the importance of an up-to-date regional water quality management plan to the health of the Region, and the Plan's impact on sanitary sewer and wastewater treatment planning, it is anticipated that the other major funding source would be the Wisconsin Department of Natural Resources (WDNR). It is proposed that the public wastewater treatment facilities also contribute funding to this RWQMP update. The final specific funding source is proposed to be municipalities that hold municipal separate storm sewer system (MS4) permits from the State of Wisconsin under the Wisconsin Pollutant Discharge Elimination System (WPDES).

The other sources for funding that will be pursued include 1) the USEPA Great Lakes Restoration Initiative, 2) the Fund for Lake Michigan, and 3) lake and river-oriented groups. A potential strategy for funding the RWQMPU is included in Table 6.2.

## Chapter 6

# COSTS AND SCHEDULE

### TABLES

## Table 6.1
## RWQMPU Cost Estimate

| Work Element | Effort | Total Cost |
|---|---|---|
| Water Quality Inventories | Collate Data | |
| | Streams | $360,000 |
| | Lakes | $100,000 |
| | Groundwater | $ 90,000 |
| | Data Analyses | $460,000 |
| | Technical Report Development | $300,000 |
| | Total Cost | $1,310,000 |
| Wastewater Inventories | Collate Data | $180,000 |
| | Data Analyses | $250,000 |
| | Technical Report Development | $180,000 |
| | Total Cost | $610,000 |
| Planning Report | Land Use Inventories | $130,000 |
| | Analyses and Forecasts | $290,000 |
| | Pollution Assessments | $120,000 |
| | Recommendations | $290,000 |
| | Planning Report Development | $370,000 |
| | Total Cost | $1,200,000 |
| | Total RWQMPU Cost | $3,120,000 |

*Source: SEWRPC*

## Table 6.2
## RWQMPU Funding Strategy

| Entity | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Total |
|---|---|---|---|---|---|---|
| SEWRPC | $145,000 | $245,000 | $245,000 | $200,000 | $200,000 | $1,035,000 |
| WDNR[a] | $145,000 | $245,000 | $245,000 | $200,000 | $200,000 | $1,035,000 |
| Public WWTPs | $50,000 | $150,000 | $150,000 | $100,000 | $100,000 | $550,000 |
| MS4 Communities[b] | $50,000 | $50,000 | $50,000 | $50,000 | $50,000 | $250,000 |
| Grants and Other Partners | $50,000 | $50,000 | $50,000 | $50,000 | $50,000 | $250,000 |
| Total | $440,000 | $740,000 | $740,000 | $600,000 | $600,000 | $3,120,000 |

Note: Assumes the Water Quality Inventory work is completed in Years 1 to 3, the Wastewater Inventory work is done in Years 2 to 3, and the Planning Report work is completed in Years 4 to 5. Costs assume work is completed from 2028 to 2032.

[a] *This would be in addition to the annual allocation to the Commission for water quality work in the Region.*

[b] *MS4 communities that are not also responsible for public wastewater treatment plants.*

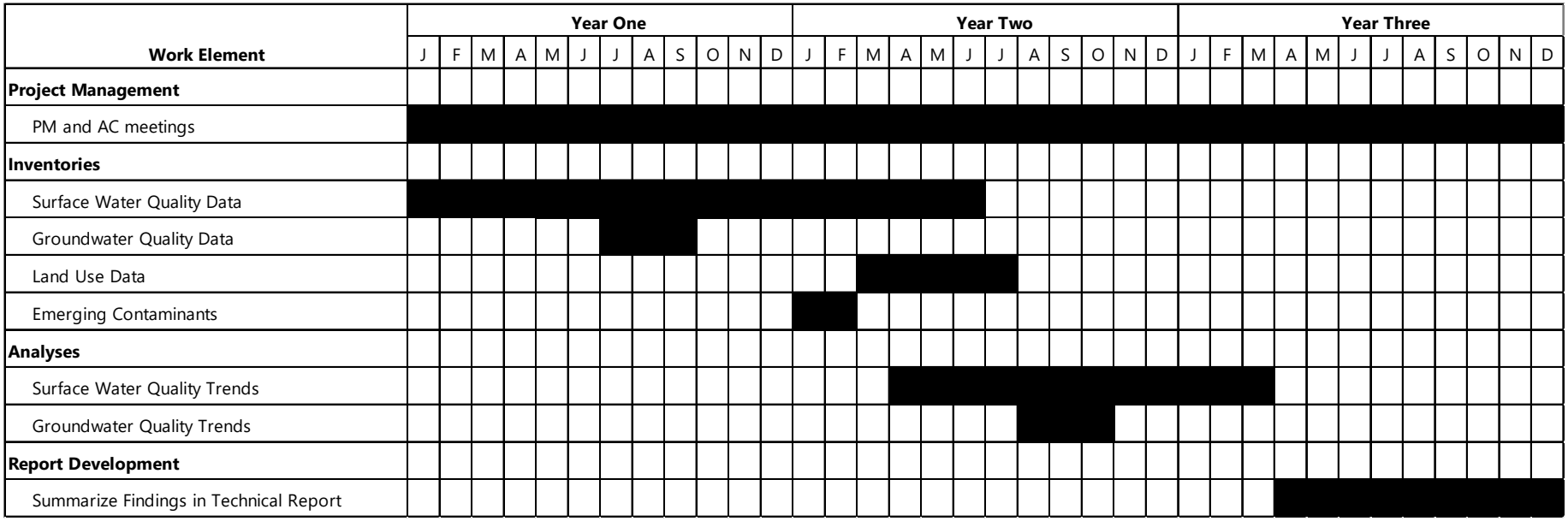
*Source: SEWRPC*

## Chapter 6

# COSTS AND SCHEDULE

**FIGURES**

## Figure 6.1
## Water Quality Technical Report Timeline



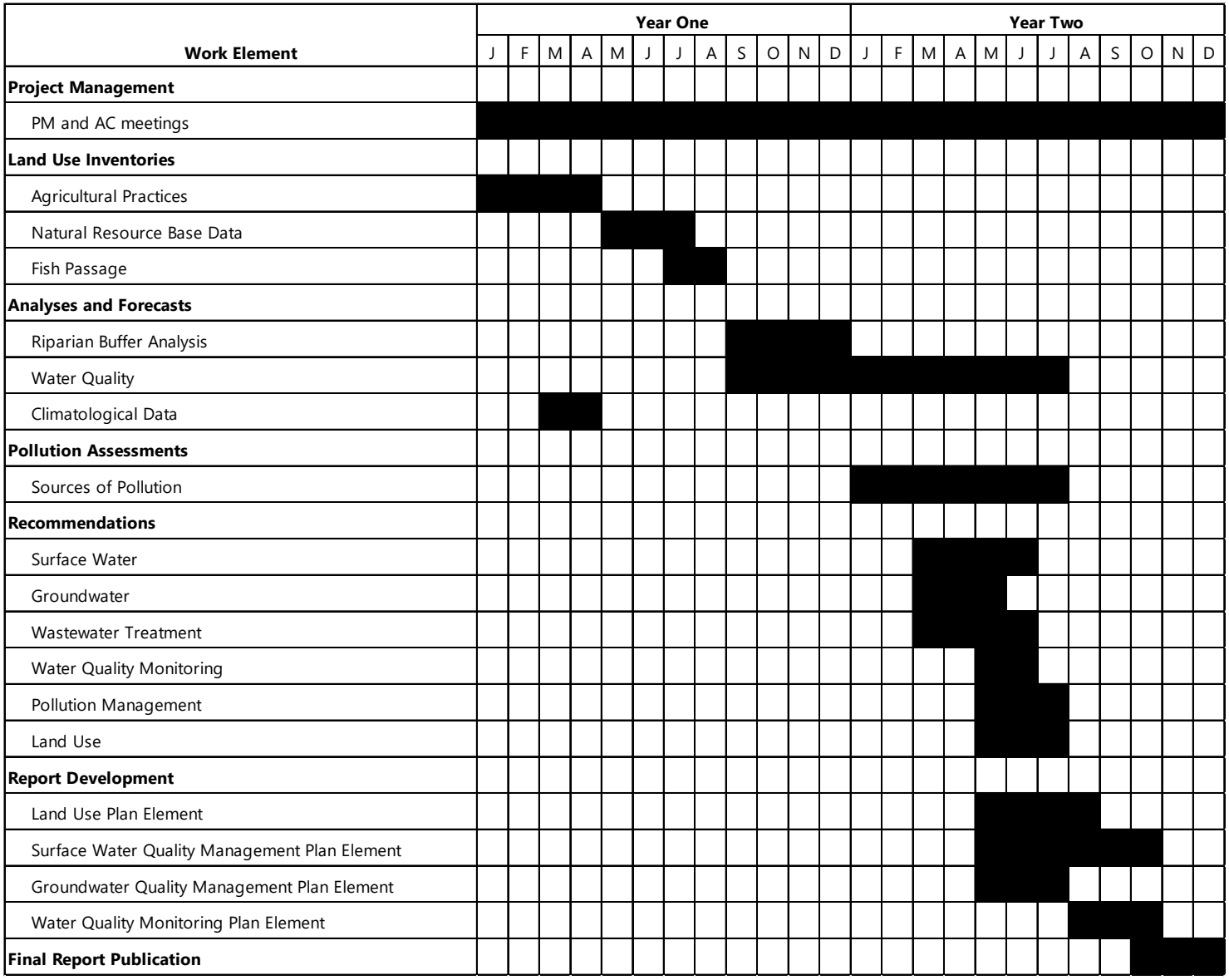

*Source: SEWRPC*

## Figure 6.2
## Wastewater Technical Report Timeline

| Work Element | Year One | | | | | | | | | | | | Year Two | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D |
| **Project Management** | | | | | | | | | | | | | | | | | | | | | | | | |
| PM and AC meetings | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| **Inventories** | | | | | | | | | | | | | | | | | | | | | | | | |
| Plant Discharge Permits and Variances | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | |
| Interviews with Plant Operators | | | | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | |
| Dicharge Pollutants Data | | | | | | | | ■ | ■ | ■ | ■ | | | | | | | | | | | | | |
| Private Onsite Wastewater Treatment Areas | | | | | | | | | ■ | ■ | | | | | | | | | | | | | | |
| Sanitary Sewer Service Areas | | | | | | | | ■ | ■ | | | | | | | | | | | | | | | |
| **Analyses** | | | | | | | | | | | | | | | | | | | | | | | | |
| Wastewater Treatment Processes | | | | | | | | | | | ■ | ■ | ■ | ■ | | | | | | | | | | |
| Wastewater Treatment Plant Conditions | | | | | | | | | | | | | | ■ | ■ | ■ | ■ | | | | | | | |
| Discharge Pollutants | | | | | | | | | | | | | | | | | ■ | ■ | ■ | ■ | | | | |
| Cost Estimates | | | | | | | | | | | | | | | | | ■ | ■ | ■ | | | | | |
| **Report Development** | | | | | | | | | | | | | | | | | | | | | | | | |
| Summarize Findings in Technical Report | | | | | | | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

*Source: SEWRPC*

## Figure 6.3
## Regional Water Quality Management Plan Update Planning Report Timeline




*Source: SEWRPC*