

Section IX. Monitoring

Throughout the implementation process, several indicators will be used to determine if water quality improvements have been attained. These indicators have been identified as “Success / Performance Measure” in the table comprising 7.02 - *Task Implementation and Indicators* and have been classified as Social, Environmental, or Administrative.

9.01 Social Indicators

Social Indicators complement other environmental and administrative indicators to present a complete picture of project and management strategy effectiveness. They provide information about awareness, attitudes, capacity, and behaviors that are expected to lead to water quality improvement and protection. Social Indicators will be used to monitor:

- Increased awareness of watershed activities, concerns, and accomplishments
- Increase knowledge of and concern for watershed issues
- Increase knowledge of conservation land practices and their importance to watershed health
- Improved attitudes towards actions to improve watershed health
- Increased participation in activities for the watershed
- Participation in cost-share programs

Monitoring of Social Indicators will be accomplished through tracking of attendance at workshops, distribution of information / educational flyers, and participation in watershed programs.

By monitoring Social Indicator statistics, the Steering Committee will be able to identify whether or not stakeholders are becoming more involved in watershed activities.

9.02 Environmental Indicators

Environmental Indicators are measurements of water quality, habitat or other criteria that provide information about watershed health. They provide accurate progress of changes in water quality. Examples include chemical and biological monitoring of pollutant loads, species population / health, and habitat assessments. Environmental Indicators will be used to measure:

- Changes in pollutant loads in surface waters.
- Changes in macroinvertebrate populations
- Changes in habitat quality.

Indicators will be monitored at minimum through a quarterly water testing, annual macroinvertebrate sampling, and annual CQHEI assessments at existing BCWP sampling locations. In addition, annual (at minimum) before and after analysis of water and/or habitat quality will be performed at critical points throughout the watershed.

By monitoring Environmental Indicator statistics, the Steering Committee will be able to evaluate the effectiveness of BMP implementation programs.

9.03 Administrative Indicators

Administrative Indicators are statistics that can provide tracking information regarding program participation, task completion, and objective attainment. Examples of indicators include number of attendees at workshops, lineal foot or acreage of implemented BMPs, and change in the number of stakeholders participating in cost-share programs. These indicators are useful to track increased participation in programs, but can also be used to calculate expected pollutant load reductions. Administrative Indicators will be used to measure:

- Attendance at workshops and field days
- Number of conservation practices installed
- Adoption or changes of local governmental guidelines
- Volume of educational materials distributed
- Use of media (newspaper, radio, website) for distribution of information

By monitoring Administrative Indicators, the Steering Committee will be able to identify trends for use in planning of future activities to promote the most interest and highest level of positive impact from education, promotional and cost-share programs.

9.04 Monitoring Plan

A database tracking system will be developed and maintained to record social, environmental, and administrative indicators. The database will be updated after workshops / events and sampling events, and it will be updated quarterly for non-time-specific measures such as requests for education materials.

Information regarding participation in conservation programs will be reviewed by the Steering Committee on no less than a quarterly basis. Other information will be reviewed and discussed by the Steering Committee on no less than an annual basis.

This information will be used Evaluate, Adapt, and Amend this Watershed Management Plan (*Section XI*)