

WATER QUALITY MITIGATION AND MONITORING PROPOSAL GUIDELINES; A guide to preparing your mitigation and monitoring plan for submittal with your 404/401 application.

A complete proposal to mitigate post construction water quality impacts to Waters of the U.S., Waters of the State should include all of the appropriate information below

PROJECT DESCRIPTION

1. Responsible Parties
2. Location of Project
3. Brief Summary of Overall Project
4. Difference in pre and post construction hydrology, pre project hydrologic conditions
 - Soil type(s), local rainfall and evapotranspiration rate,
5. Waterbody(s) project discharges to (if unnamed, list named waterbody it ultimately discharges to)
6. List beneficial uses and water quality standards for all waterbodies being discharged to (if flood control channel, list the beneficial uses for the waterbody the flood control channel discharges into).

GOAL OF MITIGATION

1. Type of mitigation proposed and rationale for its selection
2. List target pollutants to be treated by your mitigation (i.e. temperature, N, P, sediment, volume, etc.)
3. Functions and Values to be created by your water quality mitigation
4. Time Lapse
5. Estimated Cost
6. Any Endangered or Sensitive Species concerns on-site

PROPOSED MITIGATION SITE

1. Location and Size of proposed Mitigation Area
2. Ownership Status
3. Existing Functions and Values of proposed Mitigation Area
4. Present and Proposed Uses of Mitigation Area
5. Proposed Method to Preserve Water Quality Mitigation in Perpetuity - Construction Easement, Transfer of title to a 3rd Party (Conservation Agency)
6. Present and Proposed Uses of All Adjacent Areas
7. Zoning
8. Reference Site

IMPLEMENTATION PLAN

1. Detailed design plans, including size/depth, plant palette, water budget, min. 48 hour retention time, etc.
2. Rationale for Expecting Implementation Success
3. Responsible Parties – include qualifications of individual(s) responsible for both the Design and On-The-Ground implementation of Best Management Practices
4. Schedule
5. Site Preparation
6. Planting Plan
7. Irrigation Plan
8. As-Built Conditions
9. Physical Measures to Protect BMP- Fencing, signage, buffers, educational component

MAINTENANCE DURING MONITORING PERIOD

1. Maintenance Activities – Though a properly designed system should not encounter a vector control problem, please list contingency measures to be utilized in the event a problem does occur (prefer non-chemical, natural solutions such as redesign of the BMP, introduction of native fishes (not gambusia) as to the introduction of larvacides also impact beneficial insects vital to Biological Treatment).
2. Responsible Parties
3. Schedule

MONITORING PLAN – REPORTS DUE ANNUALLY FOR 5 YEARS OR UNTIL SUCCESSFUL

1. Final Success Criteria and what scientific basis you used to determine your criteria
2. Target Functions and Values
3. Target Hydrological Regime
4. Target Jurisdictional Acreage to be Created/Enhanced (if applicable).
5. Performance Criteria
6. Monitoring Methods (both visual and physically sampling for water quality improvement) – Include qualifications for individuals involved in monitoring
7. Annual Reports – Due by September 30th (include photographic documentation)
8. Schedule

COMPLETION OF MITIGATION

1. Notification of Completion to RWQCB
2. Agency Confirmation

CONTINGENCY MEASURES

1. Initiating Procedures
2. Alternative Locations for Contingency Mitigation – Must ensure the same protection of water quality as the initial mitigation proposal
3. Funding Mechanism

Adapted from the U.S. Army Corps of Engineers, Los Angeles District's HABITAT MITIGATION AND MONITORING PROPOSAL GUIDELINES publication located at <http://www.spl.usace.army.mil/co/regulatory/habmitmon.html>