Update on San Diego Water Board Activities and How Bioassessment is Integrated into Water Quality Programs

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Outline

- 1. Why Integrating Bioassessment into Water Quality Programs?
- 2. Monitoring Strategy
- 3. Water Quality Programs
- 4. Current Status of Bioassessment and Water Quality Programs
- 5. Areas that need to be addressed
- 6. Take Home Messages

Why Integrating Bioassessment Monitoring into Water Quality Programs?

- Bioassessment is directly assessing ecological health
- Bioassessment is integrating over time and pollutants
- More emphasis on bioassessment and toxicity testing, less emphasis on individual pollutants → monitoring at more locations/times
- Step 1: Assess conditions
 Step 2: Determine stressors
 Step 3: Identify sources of stressors





Short History of Bioassessment in the San Diego Region

- 1996-1997: San Diego River sewage spill sampling
- 1998-2002: Bioassessment Sampling by San Diego Water Board
- 2005: Publication of Southern CA Index of Biotic Integrity (IBI)
- 2001-2008: SWAMP Bioassessment (since 2008 also algae)
- 2009: SMC program ("Stormwater Monitoring Coalition")

Municipal Stormwater Program (since 1991)

- Bioassessment included since 2001





















Areas that need to be addressed

- Development of Biological Objectives
- Bioassessment in Non-Perennial Streams
- Climate Change and the Use of Current IBI
- Use of Multiple Assemblages (ALGAE!)
- Stressor Identification

Take Home Messages

- 1. San Diego Water Board will move forward with biological objectives
- 2. San Diego Water Board will focus on stressor identification in new regional stormwater permit
- 3. San Diego Water Board will encourage (if necessary with investigative orders...) regional monitoring program



Questions?

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