

**STATE WATER RESOURCES CONTROL BOARD
BOARD MEETING – DIVISION OF WATER QUALITY
APRIL 19, 2011
ITEM 12**

**Effectiveness Assessment
for Municipal Storm Water
Programs**

Bruce A Fujimoto

AB 739

(Chapter 610, Statutes of 2007)

Required the formation of an advisory task force to provide input on:

- Criteria for use of Prop 84 Bond funds relative to storm water projects
- An Effectiveness Assessment Document for use by the Water Boards

Required the State Water Board to report to the Ocean Protection Council on the Water Board efforts to implement the OPC strategic plan – report submitted to the OPC in April of 2009.

Process

Collaborative Effort between a subgroup of the Advisory Task Force and State Water Board staff, with input from Regional Water Boards

Two staff workshops conducted last November (Northern California and Southern California)

Comments received from 12 parties – to the extent possible, comments were addressed in the revised document

What is Effectiveness Assessment?

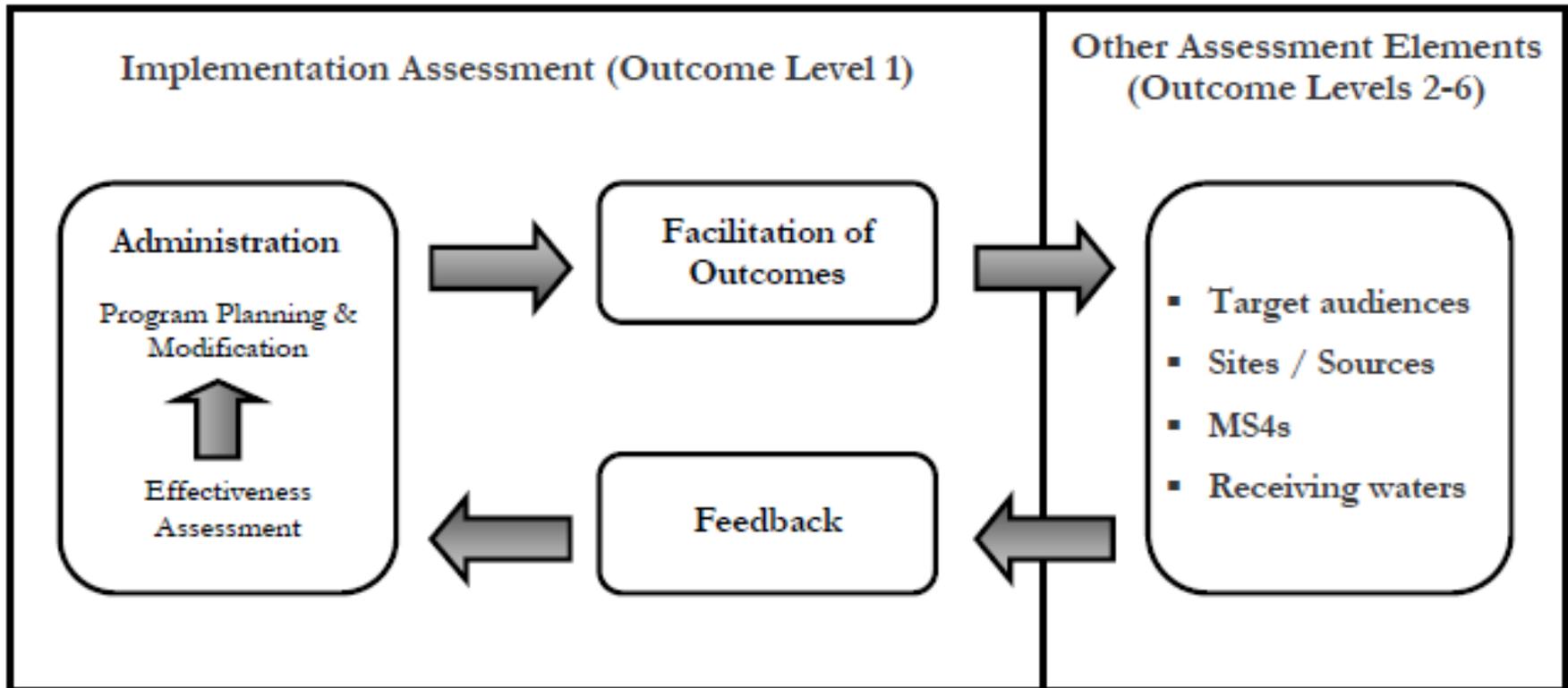
A means to evaluate program implementation that takes into account:

- Program Activities
- Awareness
- Behavioral Changes
- Load reductions
- Discharge Quality, including hydrology
- Receiving Water Quality

Assessment Types and Outcome Levels

Assessment Elements	Implementation Assessment	Target Audience & Pollutant Source Reduction Assessment			MS4 Discharge Effluent & Receiving Water Assessment	
	Integrated Assessment					
Outcome Levels and Types	Outcome Level 1 Storm water Program Activities	Outcome Level 2 Knowledge & Awareness	Outcome Level 3 Behavior	Outcome Level 4 Source Load Reduction	Outcome Level 5 MS4 Discharge Quality & Hydrology	Outcome Level 6 Receiving Water Conditions
	 <ul style="list-style-type: none"> Program administration Facilitation activities Feedback activities 	 <ul style="list-style-type: none"> Knowledge Awareness 	 <ul style="list-style-type: none"> Information seeking Pollution reporting Participation and involvement Administrative and procedural behaviors Implementation of control measures Regulatory compliance 	 <ul style="list-style-type: none"> Pollutant loads Reduction in runoff volumes 	 <ul style="list-style-type: none"> MS4 Discharge quality MS4 Discharge hydrology 	 <ul style="list-style-type: none"> Receiving water quality Hydromodification impacts Beneficial use protection

Iterative Process



How Will It Be Used?

Tool for Water Board staff to use when evaluating Municipal Separate Storm Sewer Systems (MS4) permit implementation

Evaluations will inform future permitting actions

Intended to complement the effectiveness assessment requirements in the MS4 permits

Challenges

Effectiveness Assessment is an evolving “art” – need for periodic updating

Trying to link what’s happening on land to a water quality improvement will take time.

Linkage between the assessment results and permit requirements

Thanks

- Jon Van Rhyn
- Linda Sheehan
- Kirsten James
- Tom Dalziel
- Geoff Brosseau
- Alex Mayer

Questions?