

Data Gap Assessment for
Source Analysis
Salton Sea Nutrient TMDL

Francisco Costa, PhD
SWRCB
Colorado River Basin Region

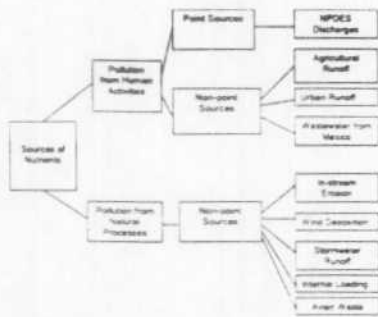
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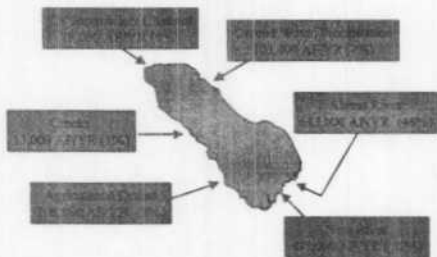
Purpose of Data Gap
Assessment

To determine what data sources are available
and what activities are required to complete
the TMDL

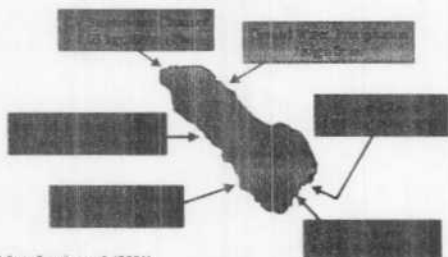
Sources of Nutrients



Salton Sea Inflows (approx.)

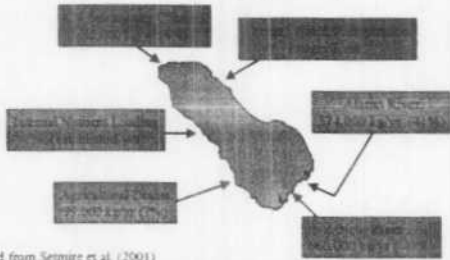


Salton Sea Nitrogen Load (approx.)



Adapted from Scire et al. (2001)

Salton Sea Phosphorus Load (approx.)



Adapted from Setmire et al. (2001)

Data Selection Criteria

- Was the study/sampling done within the Salton Sea Watershed?
- Were nutrient related parameters collected?
- Is the data available?
- Is there a detailed description of the purpose of the study, the constituents sampled and analysis methodology?
- Was there a quality control to validate the data?

Data Selection Criteria

- Can the data be used for at least one of the following purposes:
 - Assessment of the current nutrient condition of the Salton Sea Watershed
 - Characterization of the nutrient impairment
 - Estimating the nutrient load to the Salton Sea
 - Data input and validation of the nutrient model
 - Establishing a link between impairment and beneficial uses.

Data Available for Source Analysis

- 20 data sets regarding nutrient indicators in the Salton Sea
- 3 other data sets regarding nutrient indicators in the Salton Sea Watershed
- 7 sets of inflow data

The Data Gaps

- The available data covers limited area in space and time.
- There is a lack of comprehensive data regarding nutrients and associated parameters within the Sea
- Data from the individual agricultural drains
- Information regarding dynamics of biological indicators
- Nutrient model that predicts variation of nutrient content and algae growth
- Internal loading

Data Gap Fillers

- UCR Nutrient Cycling project will supply comprehensive data on the nutrient dynamics
- UCR Nutrient Cycling Model will predict phosphorus and algae concentrations within the Sea
- RB monitoring program at the outlets
- SWAMP monitoring within the Sea → 6 prints
- SDSU Biological Assessment is expected to give a comprehensive data of biological indicators.
- RB will request CVWD for data regarding agricultural drains and Whitewater River.
- RB is contemplating a contract to develop a dynamic nutrient model

• weekly data collection
• start in spring 2022

