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WRAP Sediment Control Measures

Port of Long Beach and Port of Los Angeles

May 26, 2010

TMDL TAC Meeting Presentation

- Summary of the Water Resources Action Plan (WRAP)
- Sediment Control Measures
- Current Status sediment control measures

WRAP Framework

- Developed by two Ports, Regional Board, the USEPA, and stakeholders
- Documents the current conditions of the Harbor
- Documents and builds upon the current Water and Sediment Quality Programs and initiatives
- Provides the framework for future port permits and TMDL implementation

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WRAP Sediment Control Measures

- Operations Guidance for Sediment Management (S-1)
- Contaminated Sediment Management Plan for legacy contaminants (S-2)

Sediment Management Strategies

- Operations Guidance for Sediment Management (S-1)
  - Describe how port fits within the region as defined by the CSTF
  - Detail the established mechanism for sediment management within the port
  - Establishment of a sediment condition baseline
  - Formulating a management strategy to address testing, dredging, and disposal of sediments, whether contaminated or not
  - Ranking system for sediment management options (placement alternatives)

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Sediment Management Strategies

- Contaminated Sediment Management Plan for legacy contaminants (S-2)
  - Sediment monitoring program
  - Contaminant screening
  - Confirmation of chemical related impacts in benthos
  - Risk-based prioritization of management areas
  - Identify responsible parties
  - For port actions
    - Align remediation activities with port construction projects
    - Develop site-specific cleanup targets
    - Schedule remediation

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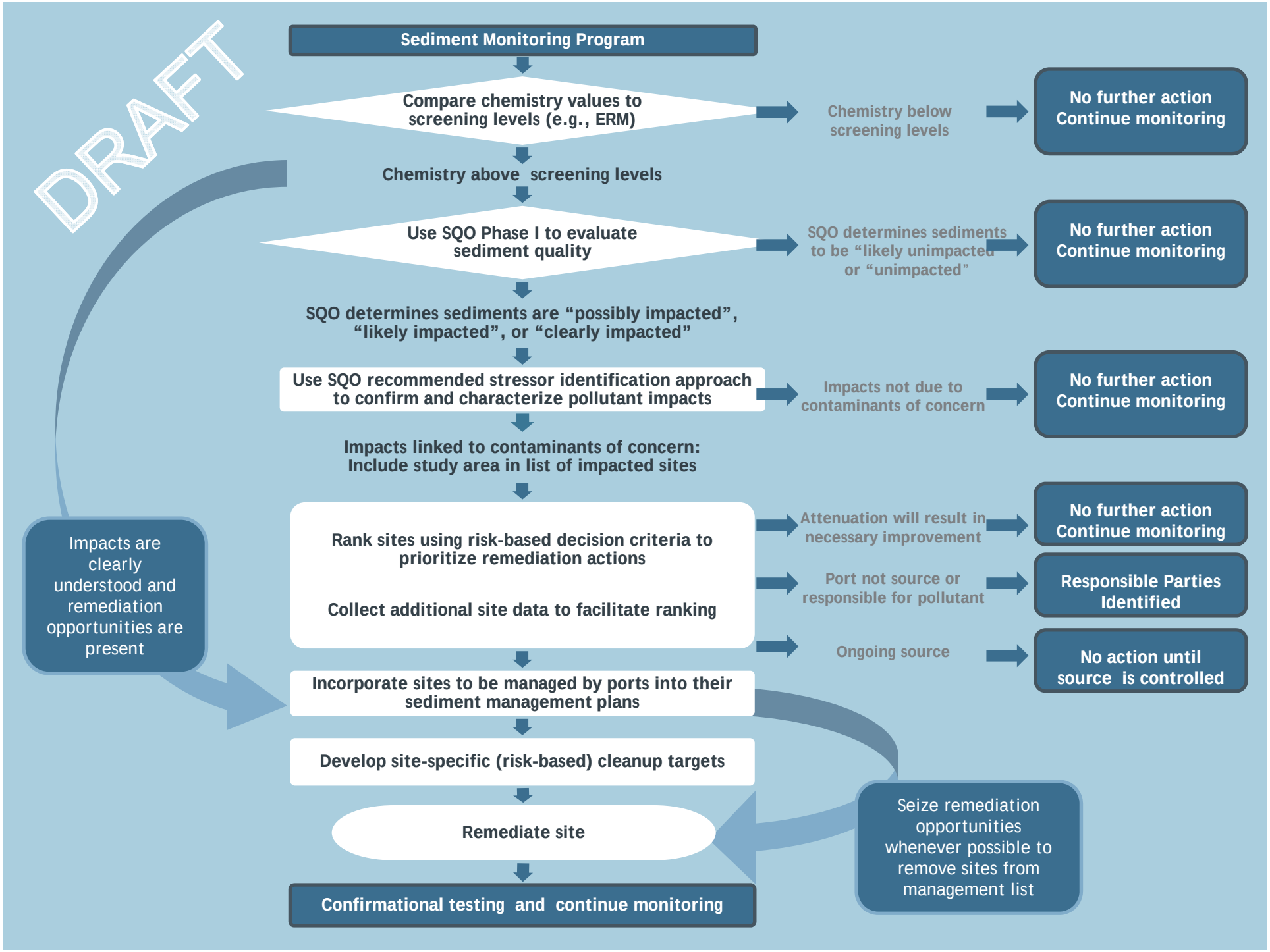
DRAFT
Sediment Monitoring Program
Compare chemistry values to screening levels (e.g., ERM)
Chemistry below screening levels
No further action Continue monitoring
Chemistry above screening levels
Use SQO Phase I to evaluate sediment quality
SQO determines sediments to be "likely unimpacted or "unimpacted"
No further action Continue monitoring
SQO determines sediments are "possibly impacted", "likely impacted", or "clearly impacted"
Use SQO recommended stressor identification approach to confirm and characterize pollutant impacts
Impacts not due to contaminants of concern
No further action Continue monitoring
Impacts linked to contaminants of concern: Include study area in list of impacted sites
Rank sites using risk-based decision criteria to prioritize remediation actions
Collect additional site data to facilitate ranking
Attenuation will result in necessary improvement
No further action Continue monitoring
Port not source or responsible for pollutant
Responsible Parties Identified
Ongoing source
No action until source is controlled
Impacts are clearly understood and remediation opportunities are present
Incorporate sites to be managed by ports into their sediment management plans
Develop site-specific (risk-based) cleanup targets
Remediate site
Confirmational testing and continue monitoring
Seize remediation opportunities whenever possible to remove sites from management list

Toxics TMDL

- Listing criteria are focused on benthic impairments
  - Benthic impairment based sediment quality guidelines
  - Toxicity to benthic species
  - Benthic community alterations
- Attainment should be determined through meeting the SQO Phase I

Risk-based Decisions

To ensure actions are:

- Ecologically meaningful resulting in measurable improvement
- Economically responsible
- Logistically feasible

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Current Status

- Both ports are developing port-specific operational sediment management guidance documents
- The approach for legacy contaminants as a TMDL implementation strategy has been discussed with RWQCB and USEPA