B Street / Broadway Piers, Downtown Anchorage, and Switzer Creek TMDLs

Public Workshop & CEQA Scoping Meeting
April 21, 2003

Presented by Brennan Ott
Workshop Outline

• Introduction to Downtown Anchorage, Switzer Creek, and B Street / Broadway Piers TMDLs
• Sampling and Analysis (UC Davis)
• CEQA Scoping Meeting

• Questions and Comments
Site History

- 1996 and 1998 BPTCP reports
- Downtown Anchorage and Switzer Creek identified as Toxic Hot Spots and listed on 303(d)
- B Street / Broadway Piers listed on 303(d)
## Downtown Anchorage (Formerly Grape Street) BPTCP Results

<table>
<thead>
<tr>
<th>Parameter</th>
<th>BPTCP Station 90002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amphipod Toxicity</td>
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<tr>
<td>Benthic Community</td>
<td>x</td>
</tr>
<tr>
<td>Chlordane</td>
<td>x</td>
</tr>
<tr>
<td>Metals</td>
<td>x</td>
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</table>
## Switzer Creek BPTCP Results

<table>
<thead>
<tr>
<th>Parameter</th>
<th>BPTCP Station</th>
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<tbody>
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<td>Amphipod Toxicity</td>
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<td>Benthic Community</td>
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### B Street / Broadway Piers
(Formerly Downtown Piers)

#### BPTCP Results

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<tr>
<td></td>
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<td><strong>Amphipod Toxicity</strong></td>
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<td><strong>Benthic Community</strong></td>
<td>X</td>
</tr>
<tr>
<td><strong>Chlordane</strong></td>
<td>X</td>
</tr>
<tr>
<td><strong>PAH</strong></td>
<td>X</td>
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</table>
## Beneficial Uses

<table>
<thead>
<tr>
<th>Aquatic Life</th>
<th>Aquatic-Dependent Wildlife</th>
<th>Human Health</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>Estuarine Habitat (EST)</td>
<td>Wildlife Habitat (WILD)</td>
<td>Shellfish Harvesting (SHELL)</td>
<td>Navigation (NAV)</td>
</tr>
<tr>
<td>Migration of Aquatic Organisms (MIGR)</td>
<td>Preservation of Biological Habitats of Special Significance (BIOL)</td>
<td>Contact Water Recreation (REC-1)</td>
<td>Industrial Service Supply (IND)</td>
</tr>
<tr>
<td>Marine Habitat (MAR)</td>
<td>Rare, Threatened or Endangered Species (RARE)</td>
<td>Non-Contact Water Recreation (REC-2)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Commercial and Sport Fishing (COMM)</td>
<td></td>
</tr>
</tbody>
</table>
Phase 1

**Measure Spatial Extent and Magnitude of Impact**

- Measure sediment quality indicators
- Identify and map impaired areas

Phase 2 - TMDL Development

- Determine cause of impairment (TIE)
- Determine sources
- Develop numeric targets
- Determine allocations

Phase 3

**TMDL Implementation**

- Source control
- Source reduction

Phase 4

**Cleanup Implementation**

**Cleanup Actions**

- Identify indicator chemicals
- Calculate cleanup levels
TMDL Elements

- Problem statement
- Numeric targets
- Source analysis
- Linkage analysis
- Margin of safety
- TMDL
- Allocations
- Implementation plan
Site Assessment

- Data collection starting June 2003
- Sampling and analysis similar to Bight 98, Shipyard, and Chollas/Paleta studies
- Data needed
  - Sediment chemistry
  - Bioaccumulation
  - Toxicity
  - Benthic community
  - Toxicity Identification Evaluation (TIE)
Project Challenges

- Determining cleanup levels
- Identifying sources
- Controlling sources
- Evaluating cleanup alternatives
- Cleanup of sediments
- Re-suspension of sediment
Switzer Creek

Site specific issues

- Proposed Campbell shipyard cap
- Dredging at 10th Ave Marine Terminal
- Switzer Creek
- Ship activity
Downtown Anchorage

Site specific issues
- Other investigations
- Stormdrains
B Street / Broadway Piers

Site specific issues

• Ship activity
• Stormdrains
Target Schedule
Phase 1
**Measure Spatial Extent and Magnitude of Impact**
- Measure sediment quality indicators
- Identify and map impaired areas

Phase 2 - (TMDL Actions)
- Determine cause of impairment (TIE)
- Determine sources
- Develop numeric targets
- Determine allocations

Cleanup Actions
- Identify indicator chemicals
- Calculate cleanup levels

Phase 3
**TMDL Implementation**
- Source control
- Source reduction

Phase 4
**Cleanup Implementation**
Target Schedule

• Phase I - March 2004
• Phase II - March 2005
San Diego Bay
TMDLs Working Group

• Committed group to advise the Regional Board and participate during the TMDL process

• Emphasis on implementation planning

• Key representatives from various stakeholder groups
Public Participation

• Subscription lists
• Web-site: www.swrcb.ca.gov/rb9
• Email: SDBAY_TMDLS@rb9.swrcb.ca.gov
• Informal public input
• Formal comment period
• Brennan Ott: otbre@rb9.swrcb.ca.gov or (858) 268-5362