Abandoned and Derelict Vessels in the Delta:
Results of a Comprehensive Aerial Survey

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Tuesday, September 25, 2018
Where are the vessels?
Types of Abandoned Vessels in the Sacramento-San Joaquin Delta

- Commercial: 53
- Recreational: 182
Survey Vessel Status and Type

- Commercial - Floating (22*)
- Commercial - On Land (2)
- Commercial - Sunk (29)
- Recreational - Floating (124)
- Recreational - On Land (1)
- Recreational - Sunk (57)

*Includes the one military vessel found during the survey

Note: Charts were created using low estimate aerial data
Distribution of Vessels by County

- Contra Costa: 55
- Sacramento: 38
- San Joaquin: 37
- Solano: 88
- Yolo: 17
Distribution of Vessel Types Across Counties

- Contra Costa: 78% Recreational, 22% Commercial
- Sacramento: 82% Recreational, 18% Commercial
- San Joaquin: 68% Recreational, 32% Commercial
- Solano: 80% Recreational, 20% Commercial
- Yolo: 82% Recreational, 18% Commercial
Cost Estimate

Factors that influence cost of removal

• Accessible by land vs. water
• Sunk/Floating
• Hull material
• HazMat
• Sheen
• Depth of water
• Distance to nearest landfill
• Height restrictions
<table>
<thead>
<tr>
<th>Length Category</th>
<th>Number of vessels</th>
<th>Average cost of vessel removal by category</th>
<th>Cost for vessel category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vessels under 25 ft.</td>
<td>181</td>
<td>$4,000</td>
<td>$724,000</td>
</tr>
<tr>
<td>Vessels between 25 ft. and 65 ft.</td>
<td>19</td>
<td>$145,699</td>
<td>$2,768,275.00</td>
</tr>
<tr>
<td>Vessels larger than 65 ft.</td>
<td>35</td>
<td>$857,143</td>
<td>$30,000,000.00</td>
</tr>
<tr>
<td>Total</td>
<td>235</td>
<td>$142,520.32</td>
<td>$33,492,275</td>
</tr>
</tbody>
</table>
Example Funding Scenarios

- If had a budget of $6 million/year for 10 years, could remove all legacy vessels from Delta in about 7 years and have influx under control in about 9

- If ramped down to $1.5 million after the first 10 years, could continue to keep influx under control for life of program (assuming influx reduces to 1 vessel a year after 5 years and stays constant)
Questions?
Thank you

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