**Sheen Monitoring Report #44**

**Period:** 08/18/2014 through 08/24/2014  
**Monitoring Days:** 08/19/2014*

*Weekly sheen monitoring started on 03/11/2014.

**Summary of Rainfall:** A qualifying storm is defined as at least 0.25-inch rainfall in 3 hours and at least 72 hours since the previous qualifying storm.

<table>
<thead>
<tr>
<th>Date</th>
<th>Maximum 3-hr Precipitation</th>
<th>Qualifying Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/18/2014</td>
<td>0.04 inches</td>
<td>No</td>
</tr>
<tr>
<td>08/19/2014</td>
<td>0.00 inches</td>
<td>No**</td>
</tr>
<tr>
<td>08/20/2014</td>
<td>0.00 inches</td>
<td>No</td>
</tr>
<tr>
<td>08/21/2014</td>
<td>0.00 inches</td>
<td>No</td>
</tr>
<tr>
<td>08/22/2014</td>
<td>0.01 inches</td>
<td>No</td>
</tr>
<tr>
<td>08/23/2014</td>
<td>0.00 inches</td>
<td>No</td>
</tr>
<tr>
<td>08/24/2014</td>
<td>0.00 inches</td>
<td>No</td>
</tr>
</tbody>
</table>

**Notes:**
1. Non-brittle sheens are often related to anthropogenic sources, including petrogenic sources (e.g., petroleum hydrocarbons).
2. Brittle sheens are often of natural biogenic origin.
3. Laboratory testing is required to distinguish sheen sources (e.g., crude oil, roadway runoff, natural biologic activity).

**Mitigation:** Suspected petrogenic sheens were removed using absorbent materials.

**Observations in Cove Inlet Channel:**
- No sheen observed.

**Observations in Cove:**
- Three patches/streamers of rainbow/silver gray sheen (one with 0.25-inch wide oil spots); and one patch/streamer and two streamers of silver gray sheen observed. Sheens did not break when disturbed ("non-brittle")¹.
- One patch/cover (no particular structure) of silver gray sheen observed. Sheens broke apart when disturbed ("brittle")².
- One patch/streamer of non-brittle¹ and brittle² silver gray sheen observed (shown as non-brittle on the figure).

**Path Forward for 08/25/2014 through 08/31/2014:**
- Conduct sheen monitoring in Cove per the Construction Quality Assurance Plan (Appendix C of the Mitigation Action Plan approved by the ADEQ on July 8, 2014).

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**Legend:**
- Green Line – No Sheen
- Aqua Circle – Brittle Sheen Location
- Pink Circle – Non-Brittle Sheen Location
- Orange Circle – Non-Brittle Sheen Location with Oil Spot
- OW-1 – Shoreline Observation Location

**Cove (Summary of Observations from 08/18/2014 through 08/24/2014)**

**Rainbow/Silver Gray Sheen Patch/Streamer with Oil Spots (0.25-inch Wide) Observation on 08/19/2014**