DIVERSION BACKGROUND

Huntington Beach

Newport Beach
WHY DIVERT URBAN RUNOFF?

1. Beach Closures Due To Bacteria
2. Selenium TMDL
Whereas,
certain types of dry weather urban runoff create public health and/or environmental problems
to address certain environmental concerns associated with dry weather urban runoff
the District has limited system capacity in its collection, treatment, and disposal facilities
the District intends to waive fees and charges associated for authorized discharges

RESOLUTION NO. OCSD 13-09
A RESOLUTION OF THE BOARD OF DIRECTORS OF ORANGE COUNTY SANITATION DISTRICT ESTABLISHING THE POLICY FOR DRY WEATHER URBAN RUNOFF AND REPEALING RESOLUTION NO. OCSD 01-07

WHEREAS, the Orange County Sanitation District (the “District”), is a duly organized County Sanitation District existing pursuant to the County Sanitation District Act, California Health and Safety Code section 4730, et seq., authorizing the ownership, operation, and maintenance of wastewater collection, treatment, and disposal facilities within Orange County, California; and
WHEREAS, pursuant to Health and Safety Code section 4730.05, the District is authorized to acquire, construct, operate, maintain, and furnish facilities for all or any one of the following purposes: (1) The disposal of urban runoff from drainage courses within the district, (2) The treatment of the urban runoff, (3) The return of the water to the drainage courses, (4) The beneficial use of the water, and
WHEREAS, certain types of dry weather urban runoff create public health and/or environmental problems which are impossible to economically or practically control through traditional stormwater management practices; and
WHEREAS, the District has available limited system capacity in its collection, treatment and disposal facilities which may allow the District to accept discharge of certain dry weather urban runoff flows not to exceed 10 million gallons per day (mgd) without adversely affecting the District’s primary function of collector, treatment and disposal of sanitary sewer discharges; and
WHEREAS, the District does not have system capacity available to allow wet weather discharges to the District’s facilities; and
WHEREAS, for purposes of this policy, “wet weather” shall mean any period during which measurable rainfall occurs in any portion of the District’s service area and shall include the period following the cessation of rainfall until the District determines that the wet weather event is no longer impacting the District’s collection, treatment and disposal facilities; and
WHEREAS, for the purposes of this policy, “dry weather” shall mean any period which does not fall within the definitions of “wet weather”; and
WHEREAS, the District developed a Dry Weather Urban Runoff Policy pursuant to Resolution No. OCSD 01-07 to address certain environmental concerns associated with dry weather urban runoff; and

OCD-13-09-1
Stormwater / Groundwater

Dry Weather Flows Only

We don’t take rainwater/stormwater into the collection system

- Inundation (Sewage Spills)
- Sand and Silt
Current Urban Runoff Policy
Resolution No. OCSD 13-09

• 10 Million Gallons Day
• No Treatment or Administrative Costs
• Only if Capacity is Available
• No Wet Weather Discharges
OCSD’s PARTNERS

• Orange County Public Works
  Santa Ana River, Huntington Beach Channel, Greenville Channel

• City of Huntington Beach
  Adams, Atlanta, Banning, Flounder, Hamilton, Indianapolis, Meredith, Newland, Scenario, Yorktown and 1st Street CDS

• City of Newport Beach
  Big Canyon, Newport Dunes, Mid Big Canyon

• Irvine Ranch Water District
  Los Trancos Canyon, Muddy Canyon, Peters Canyon

• PH Finance (Pelican Hill Resort)
  Pelican Point
Program Administration

• OCSD coordinates with O.C. Watersheds (Technical Advisory Committee)

• OCSD and Permittee execute an Agreement for Dry Weather Urban Runoff

• Dry Weather Urban Runoff Discharge Permit issued to each diversion
Area of Special Biological Significance
Santa Ana River Diversion
Plant 1
Big Canyon Diversion  (Newport Beach)

Selenium Mediation in the Upper Newport Bay
Mid Big Canyon Diversion
(Newport Beach)
Mid Big Canyon Diversion
(Newport Beach)
Peters Canyon Pipeline (Irvine)

Como, Edinger, & Valencia Channel Tributaries
Greenville Channel Diversion
(Costa Mesa)

diversion pipeline

rubber dam
Stormdrain System
(Huntington Beach)
Stormdrain System
(Huntington Beach)
Stormwater Pump Station
(Huntington Beach)
WHY DIVERT URBAN RUNOFF?
High Bacteria Levels Close Beaches
Delhi Channel Diversion
(Santa Ana – Costa Mesa)
Delhi Channel Diversion
(Santa Ana – Costa Mesa)
Delhi Channel Diversion
(Santa Ana – Costa Mesa)
Dry Weather Urban Runoff Quality

• **Routine Monitoring**
  Both OCSD and Permittees

• **Very Good Compliance Record**
  Heavy metals, oil & grease, pesticides, and TTOs (chloroform, toluene) at near detection limit concentrations

• **Occasional Sulfide Exceedances**
### Impact

- **Summer Dry Weather** - 97% of sites score A and B grades
- **Winter Dry Weather** - 93% of sites score A and B grades
- **Wet Weather** – 44% of sites score A and B grades *(down from 5-year average of 60%)*

<table>
<thead>
<tr>
<th>Location</th>
<th>Summer Dry</th>
<th>Winter Dry</th>
<th>Wet Weather</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brookhurst Street</td>
<td>A</td>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>Crystal Cove State Beach</td>
<td>A+</td>
<td>A+</td>
<td>A+</td>
</tr>
<tr>
<td>Huntington Street</td>
<td>A+</td>
<td>A</td>
<td>C</td>
</tr>
<tr>
<td>Magnolia Street</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Muddy Canyon Beach</td>
<td>A+</td>
<td>A+</td>
<td>A</td>
</tr>
<tr>
<td>Newport Dunes – 4 monitoring locations</td>
<td>A</td>
<td>A+</td>
<td>F</td>
</tr>
<tr>
<td>Pelican Point Beach</td>
<td>A+</td>
<td>A+</td>
<td>A+</td>
</tr>
<tr>
<td>Santa Ana River Mouth</td>
<td>A</td>
<td>A</td>
<td>C</td>
</tr>
</tbody>
</table>
PROGRAM at a GLANCE

21 Diversions

~1.5 Million Gallons Per Day

9 Billion Gallons in...

18 Years

Millions of Happy Beachgoers!
URBAN RUNOFF DIVERSION PROGRAM

QUESTIONS?