2012
San Diego County Infrastructure Report Card

ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS
Report Card Team Members

**Working Team**

**Aviation**
- Eric Nelson - Co. of San Diego

**Bridges**
- Jim Frost - Simon Wong Engineering

**Land and Sea Ports of Entry**
- Bill Wood - Transystems
- Christina Casgar - SANDAG

**Levees/Flood Control/Urban Drainage**
- Cid Tesoro - Co. of San Diego

**Parks/Recreation/Environment**
- Bill Saumier - Co. of San Diego

**K-12 School Facilities**
- Bob Kiesling - Grossmont UHSD

**Solid Waste**
- Donna Turbyfill - Co. of San Diego

**Surface Transportation**
- Gordon Lutes - Dokken Engineering
- Patricia McColl - David Evans & Assoc.

**Wastewater/Collection System**
- Paul Bushee - Leucadia Wastewater Dist.

**Wastewater/Treatment**
- Kevin Hardy - Encina Wastewater Auth.

**Water Supply**
- Mike Hogan - San Diego County Water Authority
Report Card Team Members

Executive Team

Section Past President ................. Patricia McColl, David Evans & Assocs.
Section President ................. Dean Gipson, HDR Engineering
Report Card Chair ................. Lawrence Pierce, San Diego Hope Church
Report Card Secretary ............. Cathy Riley, ASCE
Public Relations Chair ............ Noelle Afualo, Simon Wong Engineering
Public Relations Assistant ........ Evelyn French, Simon Wong Engineering
Graphic Design & Report Layout . Marylou Flanders, Atkins
Report Card Process

- Patricia McColl initiated updating Section’s 2005 Infrastructure Report Card for San Diego County

- 11 working teams employed by public agencies and consulting firms

- Each working team selected Peer Reviewer(s)

- 3 new categories added – Aviation, Solid Waste & Bridges

- Wastewater Systems was divided into 2 categories - Collection System and Treatment
How do we compare?

• **How is our region doing?**
  - 2012 Report Card earned an overall grade of “C” as compared to the 2005 overall grade of “C+”

• **How did our region compare to California?**
  - Overall grade for 2012 State of California was a “C”

• **How did San Diego Compare to the Nation?**
  - San Diego County grade is higher than the National ASCE 2009 Report Card grade “D”
### 2005 & 2012 Comparison Grades By Section

#### San Diego County Report Card

<table>
<thead>
<tr>
<th>Section</th>
<th>2005</th>
<th>2012</th>
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</thead>
<tbody>
<tr>
<td>Aviation</td>
<td>-</td>
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Aviation

2005 - 2012

C+
San Diego County Airports are facing:

- Funding Challenges
- Future Capacity constraints
- Community Encroachments
- Environmental and Regulatory Requirements
- Political Pressures & Community Encroachments
Bridges

2005 - C+

2012
1,432 bridges throughout San Diego County, not including Rail Transit bridges

Average age of a local bridge is 41 years

19% of those bridges are considered to be deficient

5% a year funding increase is needed for next 20 yrs.
Land and Sea Ports of Entry

2005
C

2012
C-
San Diego’s border crossings accommodate more than 18.9 million vehicles carrying 42 million people

Existing border crossings are beyond capacity

Costs to our economies is about $7.2 Billion in gross output and more than 62,000 jobs

New border crossing is critical
- 3 - Sea Port Terminals providing deep water berths
- Condition of Sea Port Terminals is generally adequate
- Sea Port Terminals impacted by other competing uses
- Sea Port Terminals will require upgrades to meet future demands
Levees/Flood Control/Urban Drainage

2005 C- 2012 C-
- Region’s drainage facilities approaching service life

- Over 50% of existing facilities are under capacity

- Increasing environmental regulations impact annual maintenance

- Region facing a deficiency in excess of $1 Billion over the next 20 years
Many park facilities have outlived their economic useful life

$500 million annual deficit for operating, maintaining and repairing parks

The backlog of park repairs is in excess of $1 Billion

Depressed economy at Federal, State and Local levels have severely impacted our Parks
School Facilities

2005: C+
2012: C
Positives:
- K-12 funding increased significantly with School Bond Programs

Negatives:
- K-12 funding decreased substantially for maintenance and future projections are bleak

Summary:
- K-12 school facilities are better off for short term
- Lack of maintenance funding is a long term issue
Integrated Solid Waste system includes reduction, reuse & recycling of all solid waste

Most Solid Waste facilities - primarily privately owned

City of San Diego, Miramar Landfill - only exception

Solid Waste system sustainability is regulatory & market driven

State’s goal is now 75% recycled diversion by 2020
Surface Transportation

2005: C
2012: D+
Positives:

• Decline in highway congestion since 2005
• Establishment of the TransNet Program

Negatives:

• Reduced & uncertain Federal & State funding
• Deterioration of our regional roads & highways:
  ✔ 50% of region’s roads are substandard or poor condition
Positives:

- Increased ridership since 2005
- Increased role in 2050 RTP
- Federal funding for maintenance
- TransNet Program funding

Negatives:

- Reduced & Uncertain Federal/State Funding
- Commuter Rail Corridor
  - 50% single tracked & bridges at service life
Wastewater/Collection System

2005
C+

2012
B
Collection System & Treatment are distinct sections for 2012

Condition of wastewater collection system showed a marked improvement over the 2005

Marked improvement attributed to sweeping State Waste Discharge Requirements mandating every wastewater collection system to establish:

- Proactive maintenance & replacement programs
- Funding for maintenance & replacement programs
Major improvements in Treatment facilities were:

- Infrastructure Investments
- Management System Improvements
- Rigorous Regulatory Oversight

Evidence of improvements are reflected in:

- Decreased ocean discharge permit violations
- Significantly fewer sewer spills
- Reduction in the number of beach closures
- Increased volume of recycled water produced
Recent major investments in the Water system were:

- Water Infrastructure Rehabilitation
- Emergency Storage Projects
- Water Supply Diversification

Major challenges are:

- Managing water rates
- Balancing capital project funding needs against rapidly increasing water supply costs
Understanding Public Infrastructure Politics

• Infrastructure is a interwoven network of facilities
• Infrastructure is a political topic
• Thinking long-term community solutions
• Considering all factors influencing decisions
• Looking at the big picture
• Doing more with less
• Considering importance of our environment
• Continuing to demand timely maintenance
Next Steps – What Can You Do?

- Become an informed citizen
- Stay informed and regularly express your opinion
- Take advantage of the printed & electronic media
- Subscribe to online media and your local newspaper
- Support well thought out fee increases and bond programs that are proposed for public infrastructure
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