



NJDEP Prepares for any Emergency

- Established a central e-mail address for all correspondence related to any debris event
 - solidwasteemergencies@dep.nj.gov
- Established an emergency contact list for all solid waste facilities and recycling centers
 - Will be updated annually (prior to every hurricane season)
- Created a Temporary Debris Management Area Approval Request Form, which reduces review time

Relaxing Solid Waste Rules for Sandy

- Executive Order → Administrative Order → **Limited and Very Specific** Solid Waste Rule relaxation
- Issued blanket approval allowing all solid waste facilities and recycling centers to operate 24 hours per day, 7 days a week.
 - Extended in hardest hit counties as needed
 - Issued prior to Sandy making landfall

Relaxing Solid Waste Rules (cont.)

- Transportation Rules Relaxed:
 - Temporary A-901 and CPCN Approvals
 - Temporary Vehicle Registrations for licensed haulers
 - Allowed use of public entity vehicles for solid waste collection (if displayed public entity's name)
- Waste Flow suspended in Monmouth, Essex, and Union Counties



Post Sandy Challenges

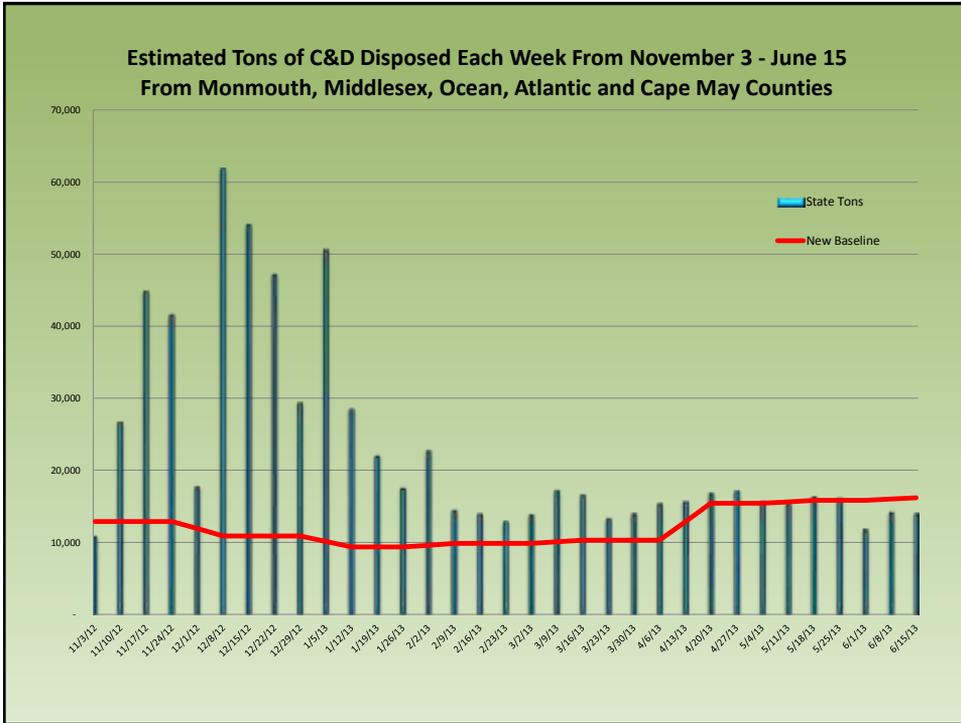
- Communication issues (regulated community, municipalities, our staff)
- Limited staffing due to 3-day state shutdown
- Power outages/phone outages/internet issues
- Extent of the damage unknown
- 2 Resource Recovery Facilities out of service
- Diesel fuel shortages at landfills and transfer stations

Post Sandy DSHW Actions

- Some DSHW staff worked during state shutdown
 - Evaluated status of solid waste facilities
- Approved requests for capacity increases at solid waste and recycling facilities
- Maintained and communicated information on operating status of solid waste facilities
- Evaluated available capacity of solid waste facilities

Post Sandy DSHW Actions (cont.)

- Issued temporary approvals for transporters
- Gathered information on amount of debris generated
 - Reviewed and evaluated data submitted by debris contractors and monitors
- Worked with FEMA regarding debris cleanup standards and regional TDMAs
- Approved Temporary Debris Management Areas for municipalities and counties



Total Debris Removed from ROW: 6,195,784 cubic yards

VOLUME HANDLED (Million cubic yards)	C&D	Veg	Sand	Demolition	Total
FEMA Initial Estimate	1.7	4.4	1.9	0	8.0
Disposed/ Recycled/ Reused	1.7	~2.1	1.9	*~.49	~6.2

FEMA estimated 1.9 million cubic yards of Sand was washed ashore.



Route 36, Sea Bright



Route 35, Mantoloking



Waterway Debris Removal

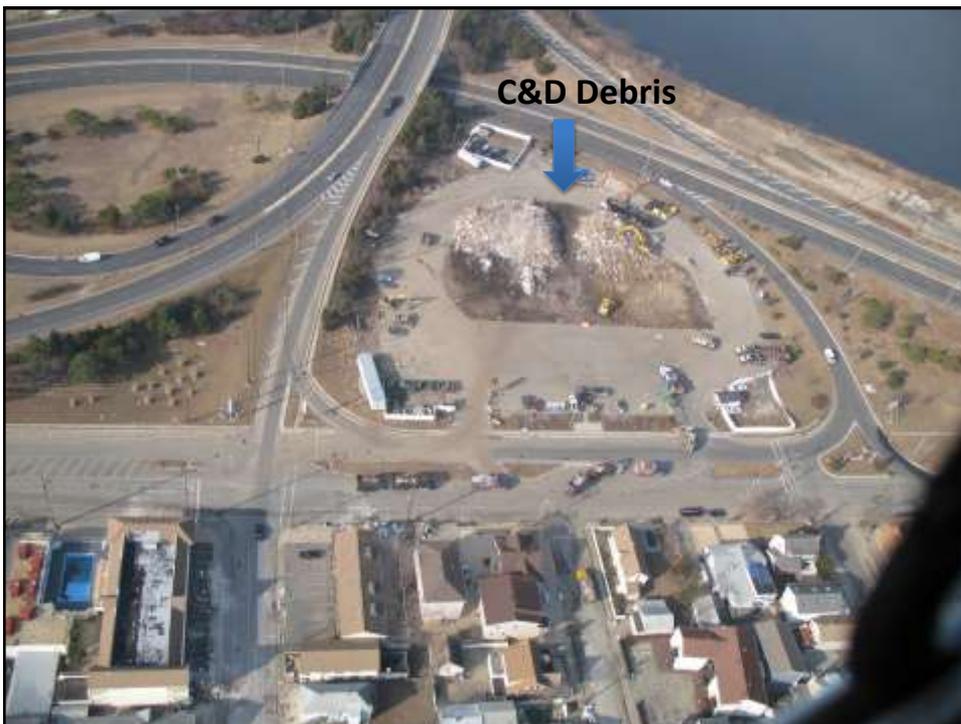
- 8 houses considered waterway debris
- 1,600 vessels were sunk or abandoned
 - 236 managed under waterway debris contract
- Debris recovered: over 97,000 cubic yards
- Acres of side sonar surveys to date: 194,750
- Total marinas cleared of debris: 275





Temporary Debris Management Areas

- All temporary debris management areas (TDMAs) must have DEP approval
- Site where debris is temporarily stored until it can be sent to a final destination (disposal or recycling)



Sandy Temporary Debris Management Areas

- 326 approved TDMA sites for a total approved storage capacity of 5,328,545 cy
 - 239 Vegetative Only – 3,235,904 cy
 - 30 C&D Only – 518,943 cy
 - 55 Mixed Debris – 1,573,698 cy





Department Oversight in the Field

- Conducted 1,118 inspections of solid waste sites and TDMAs between November 1st and March 31st
- Borrowed 29 “inspectors” from other DEP programs to inspect TDMAs

Vegetative Debris vs C&D Debris

- Vegetative debris generated throughout a larger geographic area (inland)
 - Limited end markets
- C&D debris generated in a relatively centralized area (coastal)
 - Higher disposal capacity



Sandy Vegetative Debris Issues

- Shear volume
- Time of year – no market until Spring
- Supply vs Demand – not enough experienced contractors to meet the need
- Location of recycling centers vs location of debris – South Jersey vs North Jersey
- Producing a marketable end product
 - First grind vs second grind
 - Cost

First Grind – Limited Uses



Second Grind Mulch – marketable



Lessons Learned

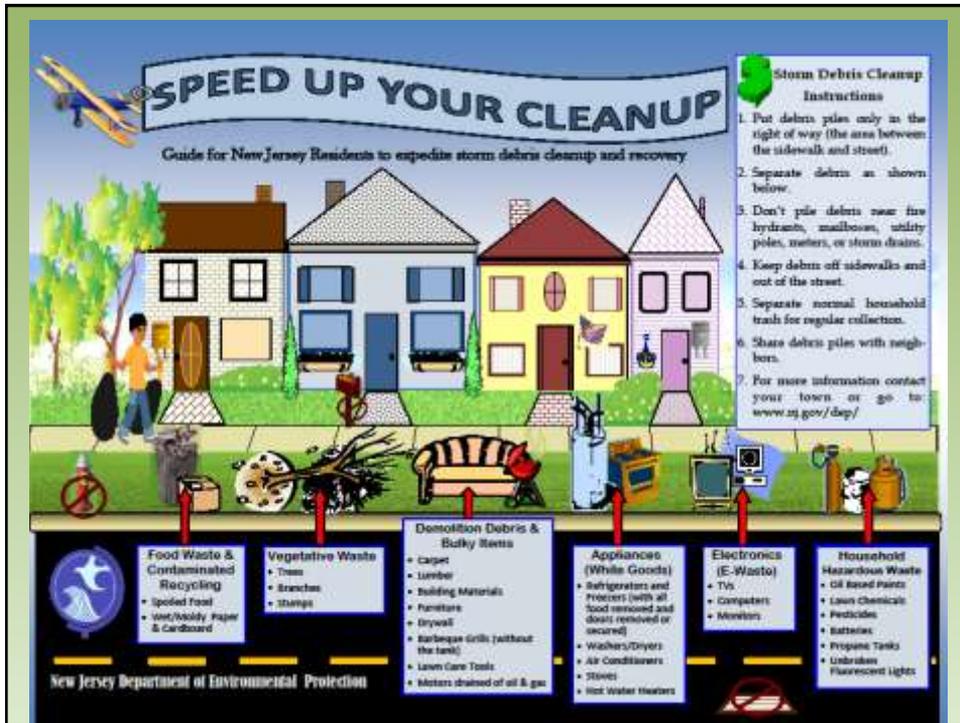
- Centralized e-mail account was most helpful
- Relaxing some rules in advance very helpful
- State debris management contracts in place prior to event is a must
- Training, Training, Training
 - Train your counties and towns
 - Train your staff (all of your staff)
- Planning, Planning, Planning
 - Internal Procedures and templates of documents

Planning for Future Events

- Drafting a New Jersey State Debris Management Plan (Annex to ESF 3)
- Preparing new state debris management contracts
- Issued Municipal Debris Management Planning Tool Kit to assist municipalities with debris planning
 - www.nj.gov/dep/dshw/toolkit.pdf

Planning for Future Events (cont.)

- Putting TDMA pre-approval procedure in place
- Educating municipalities and counties on debris planning
- Developed a draft debris management plan template for counties
- Developed flyer for public outreach on debris management



Going Forward

- DSHW still dealing with Sandy waste
 - Last of TDMAs are closing
 - Waterway debris – Round 2
 - Demolition/Blue Acres
- Rolling out pre-approval process for TDMAs
- Revising Internal Procedures
- Creating “Emergency Action Teams” so all staff know their role in response to an emergency

Going Forward (cont.)

- Working to improve communications with municipalities
 - Clarify information we need to collect
 - Determine best method for collecting the data
 - Eliminate duplication of efforts

Contacts

- Division of Solid & Hazardous Waste
 - Robin Heston – robin.heston@dep.nj.gov
 - Tom Byrne – tom.byrne@dep.nj.gov
 - Phone: 609-292-9880