

Philadelphia District Response to Hurricane Sandy

LTC Chris Becking

16 May 2013



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Hurricane Sandy

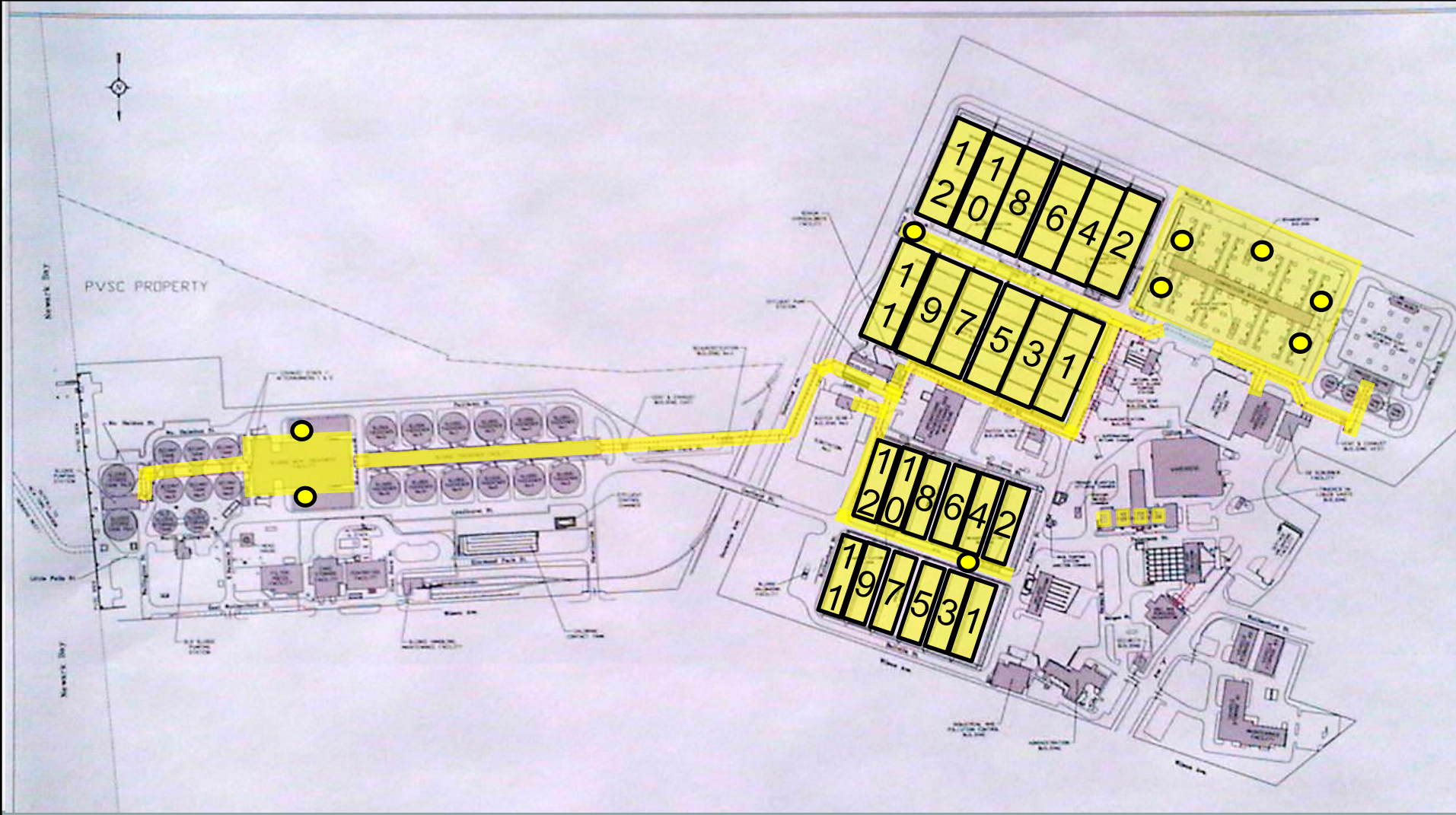


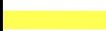
Sandy made landfall about 8 p.m. Mon., Oct. 29, striking near Atlantic City, with 80 mph winds



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Passaic Valley Sewerage Commission, Newark NJ Dewatering Mission



 Dewatering Required



Passaic Valley Sewerage Commission Dewatering & Technical Assistance Project

- Before



Passaic Valley Sewerage Commission Dewatering & Technical Assistance Project

- Sandy Impact - 12 ft NAVD 88 Tidal Surge



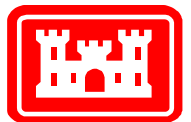
Passaic Valley Sewerage Commission, Newark NJ Dewatering Mission



Date 0700 11/10/12

Today's Picture

Shown is part of the PVSC and USACE-CDM approximately 70 MGD in portable pumps capacity currently on site. Not shown are the 2 – 10", 1- 8", 4 addition 6", 1- 4", 4-3" and 22 – 2" pumps. PVSC is treating sewerage as we dewater basins. This limits the number of basins that can be off line.



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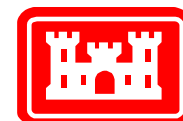
Passaic Valley Sewerage Commission, Newark NJ Dewatering Mission



Date 1600 11/12/12

Today's Picture

Foreground is discharge from our 10" diesel submersible pump dewatering Final Clarifier 10 into Clarifier 7. In the background, PVSC personnel clean debris from final clarifier 9.



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Passaic Valley Sewerage Commission Dewatering & Technical Assistance Project

- Corps Impacts



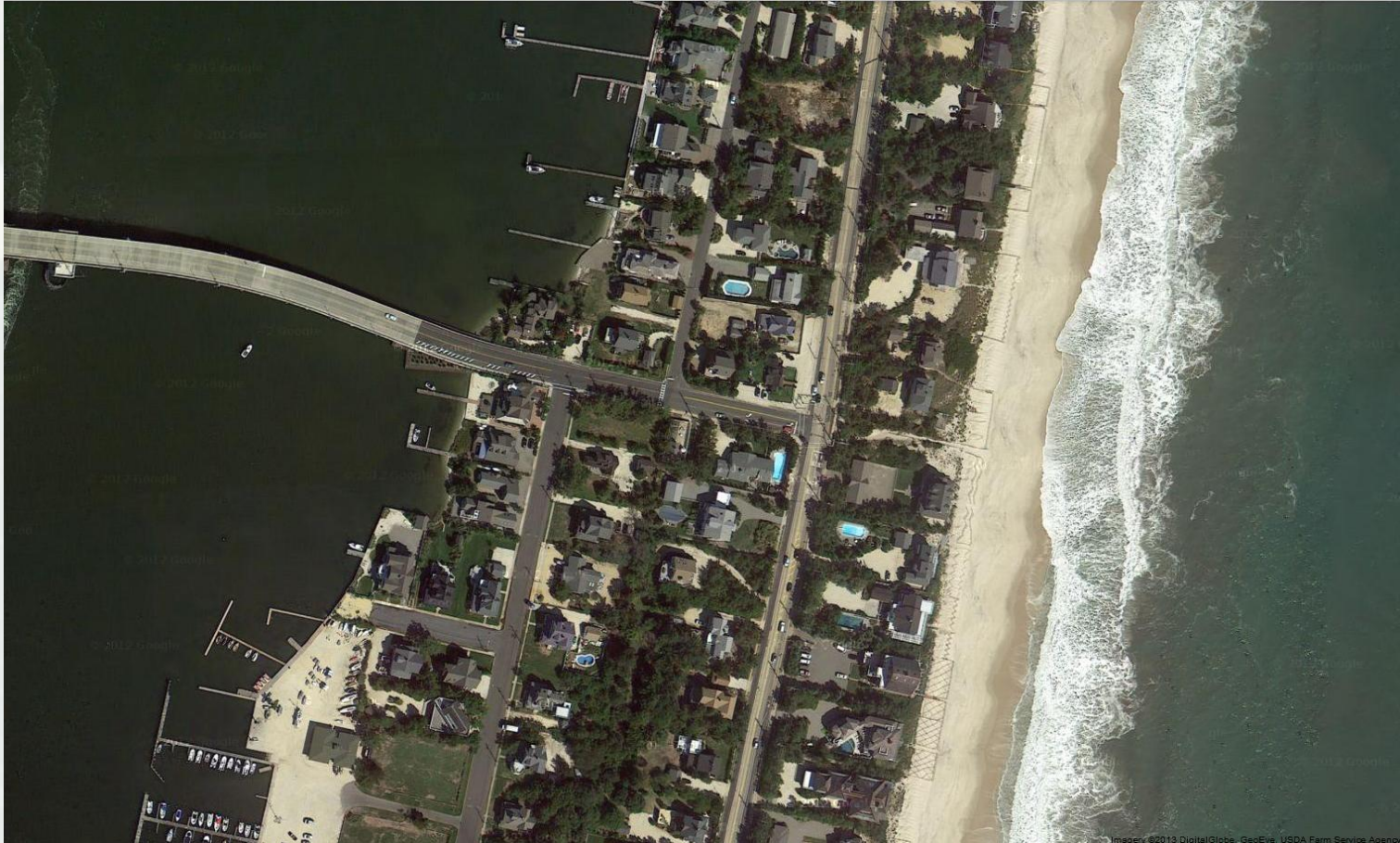
- Specific Key Actions

- ✓ provided technical guidance on order of recovery actions
- ✓ construction oversight of overall recovery actions
- ✓ construction oversight of large-scale pumping operations
- ✓ disaster guidance on FEMA reimbursement requirements



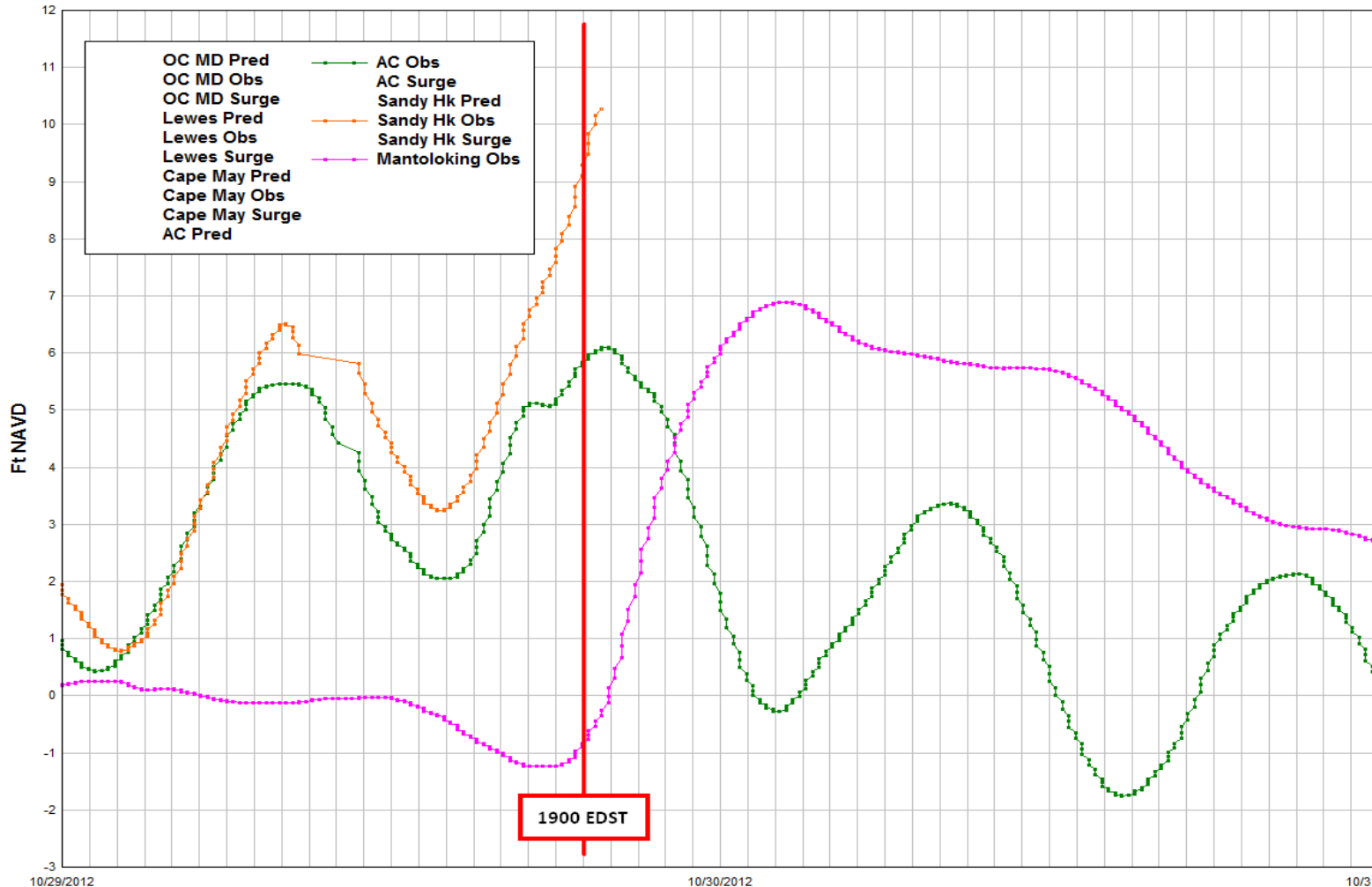
Mantoloking Breach Repair Project

- Before



Mantoloking Breach Repair Project

Sandy Tides
October 2012



10/29/2012

10/30/2012

10/31/2012

SandyTides_SMOOTHEDx12.grf



Mantoloking Breach Repair Project

- Sandy Impact



Mantoloking Breach Repair Project

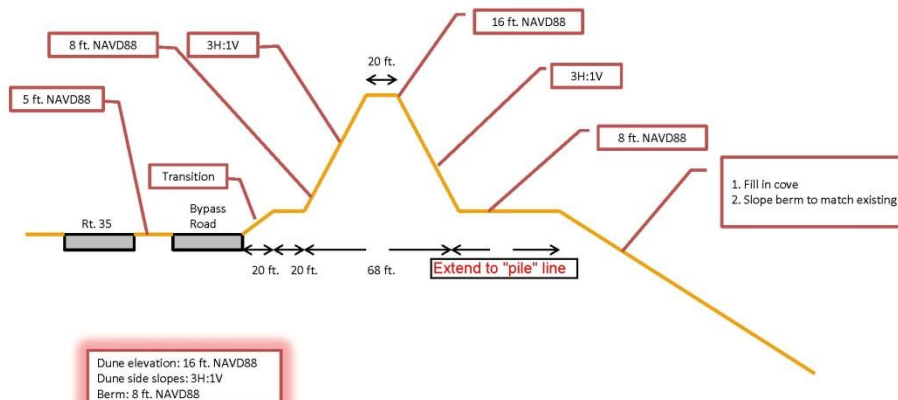


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Mantoloking Breach Repair Project



Mantoloking Breach X-Section



Mantoloking Breach Repair Project



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Mantoloking Breach Repair Project



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Mantoloking Breach Repair Project

- Corps Impacts – 72 hr timeline, Assessment to Construction shown



Specific Key Actions

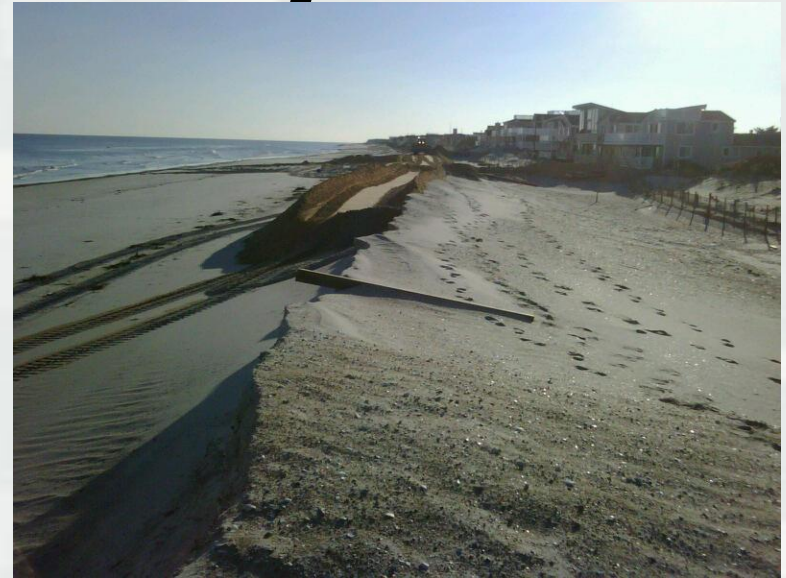
- ✓ Tasked By NJ through FEMA 11/1
- ✓ Infrastructure Assessment Team Formed & on site 11/2
- ✓ Coordination with NJDOT
- ✓ Plan of Action Scope of work completed contract signed 11/4
- ✓ Contractor Corps on Site 11/5 Trucks rolling 0700 11/6



Coastal Protection Performance & Future Repair Project



Harvey Cedars Post Sandy



Surf City Post Sandy



Holgate south of Federal Project



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Coastal Protection Performance & Future Repair Project

- Sandy Impact



AC Post Sandy



Brant Beach Post Sandy



Coastal Protection Performance & Future Repair Project



Specific Key Actions

- ✓ Tasker from FEMA 11/6 Contracts 11/6 trucks hit the ground.
- ✓ Communication between team and Contracting
- ✓ Filed supervision and coordination with office PM's
- ✓ Execution



Coastal Protection Performance & Future Repair Project

- Sandy Emergency Repairs



Coastal Protection Performance & Future Repair Project

- Sandy Emergency Repairs



Ft. Monmouth Temporary Housing Project

- Building 365 Renovation



Project Schedule and Time Line

- ✓ 12 Nov - FEMA Issued Task
- ✓ 16 Nov - Evaluation -8 Bldgs + Fam Hsng
- ✓ 19 Nov - FEMA Task Building 365 Ren
- ✓ 21 Nov - Prepared Building 365 SOW
- ✓ 24/25 Nov - Contractor Walk Thru
- ✓ 27 Nov - Contract Award
- ✓ 15 Dec - Completion (20 Days)
- ✓ 20 Dec - Building Habitation by Hurricane Evacuees



Ft. Monmouth Temporary Housing Project

Before Construction Pictures

Project



Key Features of Renovation

- ✓ Activate/test /repair/replace utility and life safety systems
- ✓ Convert 6 units into handicap accessible units
- ✓ Convert 30 one bedroom units into 15 three bedroom suites
- ✓ Replace all kitchens
- ✓ Replace all finishes and appliances



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Ft. Monmouth Temporary Housing Project

After Construction Pictures



Features of Completed Renovation

- ✓ New floor, wall, and ceiling finishes
- ✓ Renovated and converted handicap bathrooms
- ✓ New kitchens
- ✓ Renovated laundry room
- ✓ Upgraded life safety systems



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Hoboken Ferry Terminal & Power Delivery Project

Before



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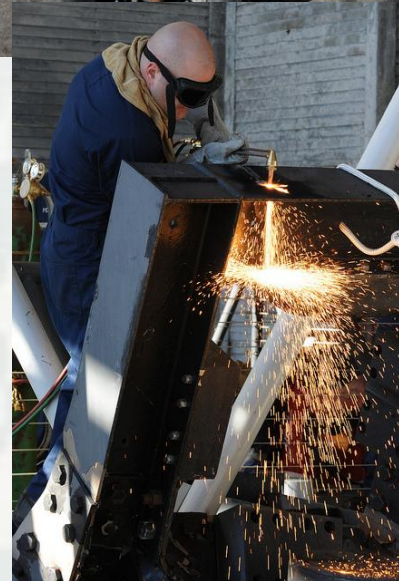
Hoboken Ferry Terminal & Power Delivery Project



Sandy Impacts

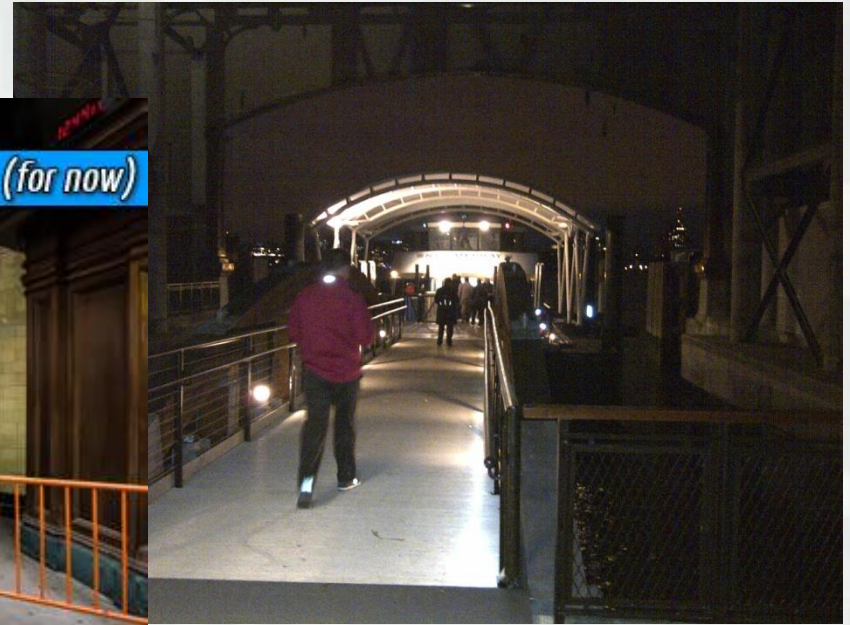


DoD Efforts to Restore Terminal



Hoboken Ferry Terminal & Power Delivery Project

- Corps Impacts – Terminal Operational by 0500 Monday, 5 Nov



What Next?



Repair and Restoration of Existing Coastal Protection Systems



Construction of New Coastal Protection Systems



www.nap.usace.army.mil

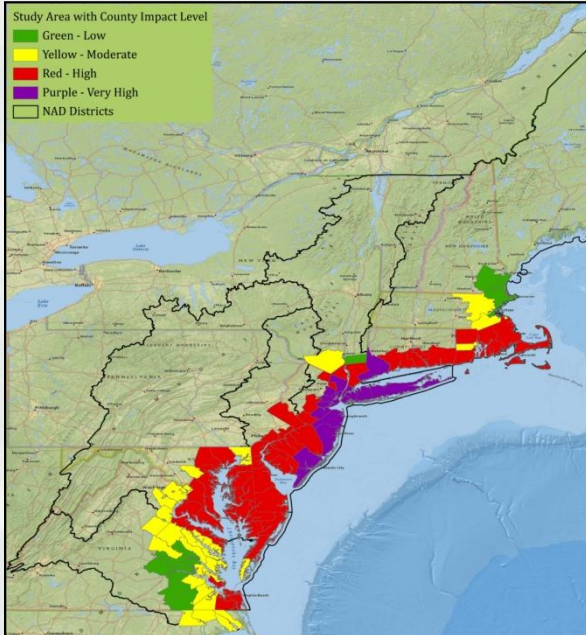


North Atlantic Coast Comprehensive Study

Goals

1. Provide Risk Reduction Framework— Reduce risk to which **vulnerable coastal populations** are subject.
2. Promote Coastal Resilient Communities – Ensure a **sustainable and robust coastal landscape system**, considering **future sea level rise and climate change** scenarios, to reduce risk to vulnerable population, property, ecosystems, and infrastructure.

*Consistent with USACE-NOAA Rebuilding Principles



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