It's Not The Steel, It's the Paper!

(Or How We Spent Our Summer Vacation!)

Louisiana Oil Berm Construction 2010





Horrible Accident

- ≥11 men lost lives
- >?? Barrels a day
- ➤ Initial reports vague
- > Response vague

News Travels Fast, Facts Not So Fast

- >CNN becomes lead on information
- >Hysteria and hyperbole are rule
- >Katrina effect
- **≻**Billy Nungesser
- ➤ Gov Jindal
- > President Obama



Industry Response

- Concern for current projects in area
- Idle equipment offered as assistance
- Skimmers
- Dispersants

Berm Plan

- Old State Plan
- More Damage Than Benefit
- Foreign marketing efforts distraction
- Concept gained momentum as spill continued

Berm Plan

- ➤ Ancil Taylor, Bean Consultant
- ➤ Pressure on BP building, so what if??
- ➤ Steel Availability

Idle

Otherwise available

➤ Paper Availability

Permits

Engineering

Contracts

➤ Meet With Corps, USCG, BP



Berm Plan

- Cap Failed
- USCG/BP State Funding Next Day
- Corps permits to State
- > Shaw hired
- Shaw meets with industry
- Corps protocol for dredges

Start Up Challenges

Philosophical

- ➤ No negative thoughts
- >We can do this
- >This is what we do
- **>**SAFETY

Start Up Challenges

- No time for planning and preparation
- Minimal plans and specifications
- Difficult Communications
- Long transport distances / Exposed Conditions
- Small unit operations in remote locations (surveys, pipeline install)
- Large workforce- influx of subcontractors
- Pressure to show progress and meet milestones

Start Up Challenges

- Weeks Clamshell first dredge deployed same day – cancelled
- > First Dredge in Site TSHD "Stuyvesant"
- >CSD California next on site









Timeline

- ➤ BP Deepwater Horizon Explosion 20 Apr
- State pushes for Berm Permits May
- Shaw signs Contract with State of LA 8 Jun
- Shaw Meets with Contractors 9 Jun
- Stuyvesant and California on Site 11-14 Jun
- NTP for Alaska, Texas, Liberty, Terrapin Padre, Spider Barge, Scows 15 Jun
- Liberty Island starts dredging 19 Jun
- Terrapin Island starts 23 Jun
- Padre Island starts 27 Jun
- Alaska departs NJ 29 Jun
- Texas departs Jax 8 Jul
- GL55 Spider Barge departs Jax 10 Jul













An Incident Injury Free Workplace

It's about caring for your coworkers

It's about speaking up when you see something unsafe

It's about planning activities and asking questions

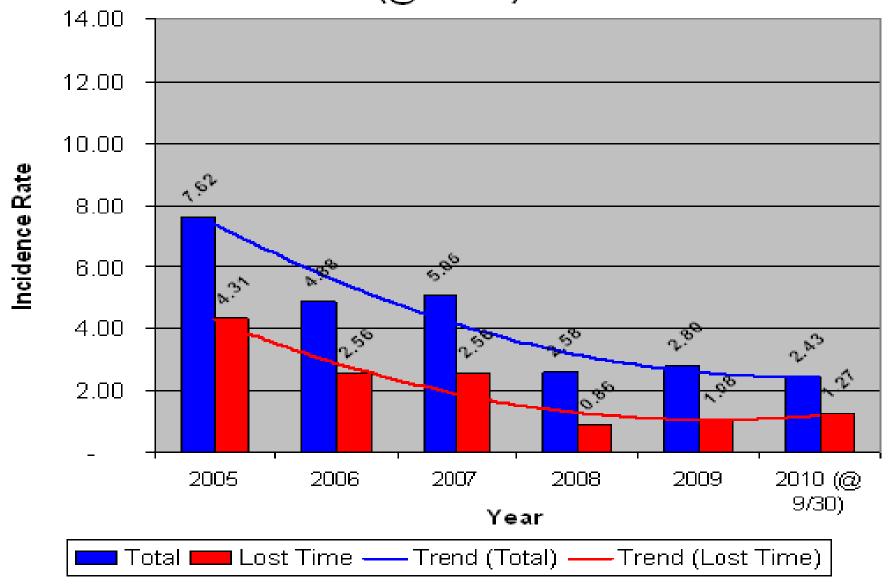
It's changing from complying with safety practices to adopting them as the standard

It's about taking responsibility for your own safety and the safety of those who work with you

It's about acknowledging your importance to the company

It's about choosing to follow safety rules because you want

Personal Injury Incidence Rates Calendar Years 2005 through 2010 (@ 9/30/10)



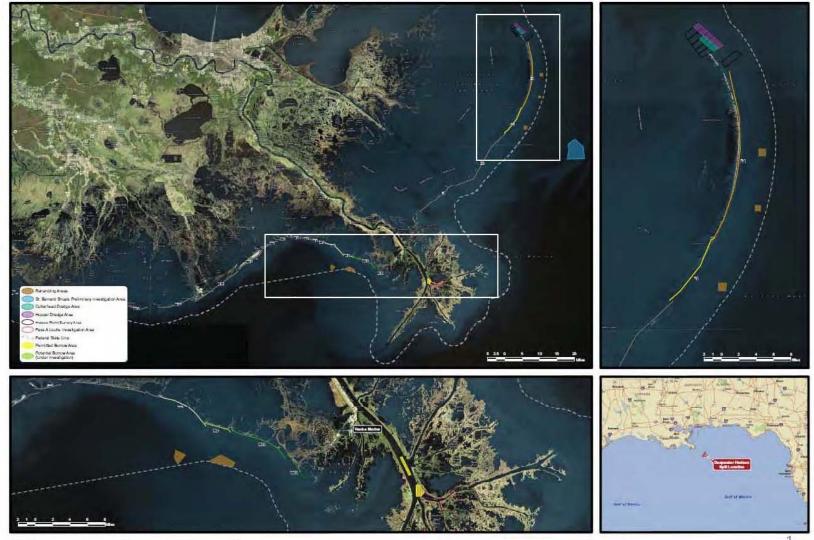
Thinking on Our Feet

- ➤ Innovation in methodology
- ➤Innovation in technology
- **>**SAFETY
- Communication Corps starts weekly meetings
- ➤ Production challenges

 Variable material, how measure progress?



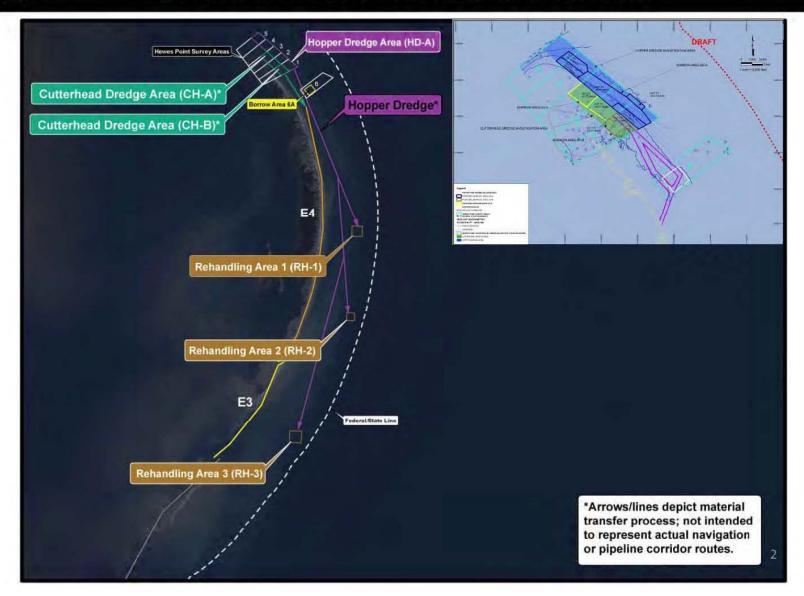
BARRIER BERM PROJECT



(File name: Overall Berm)

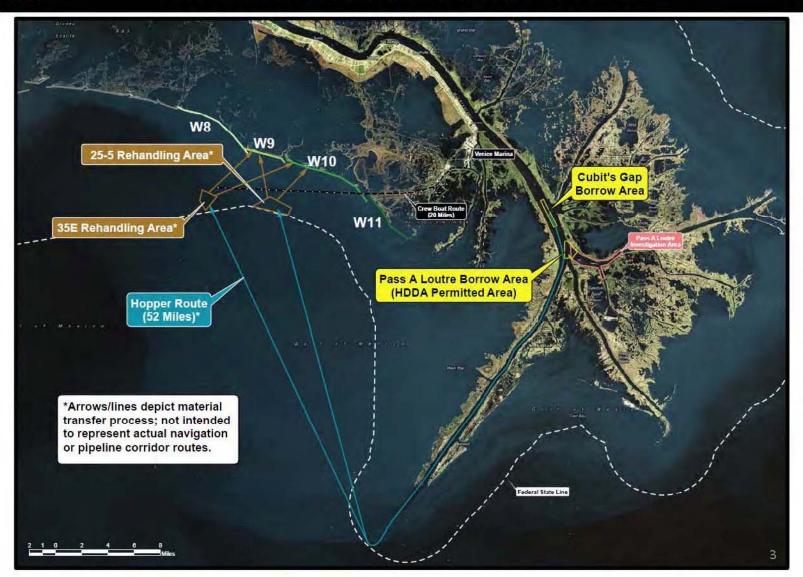


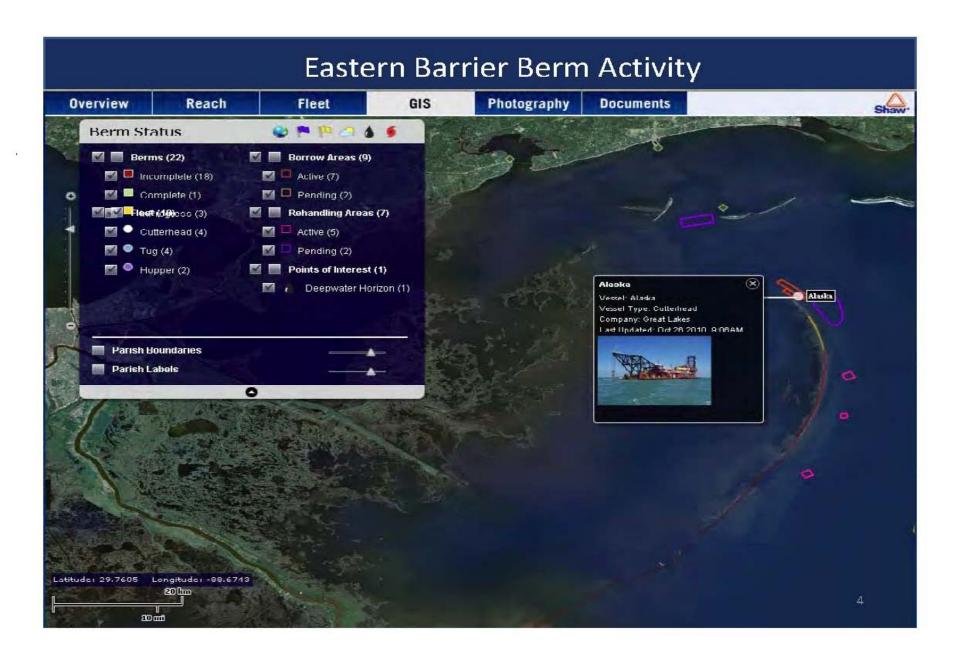
EASTERN BARRIER BERM DETAIL

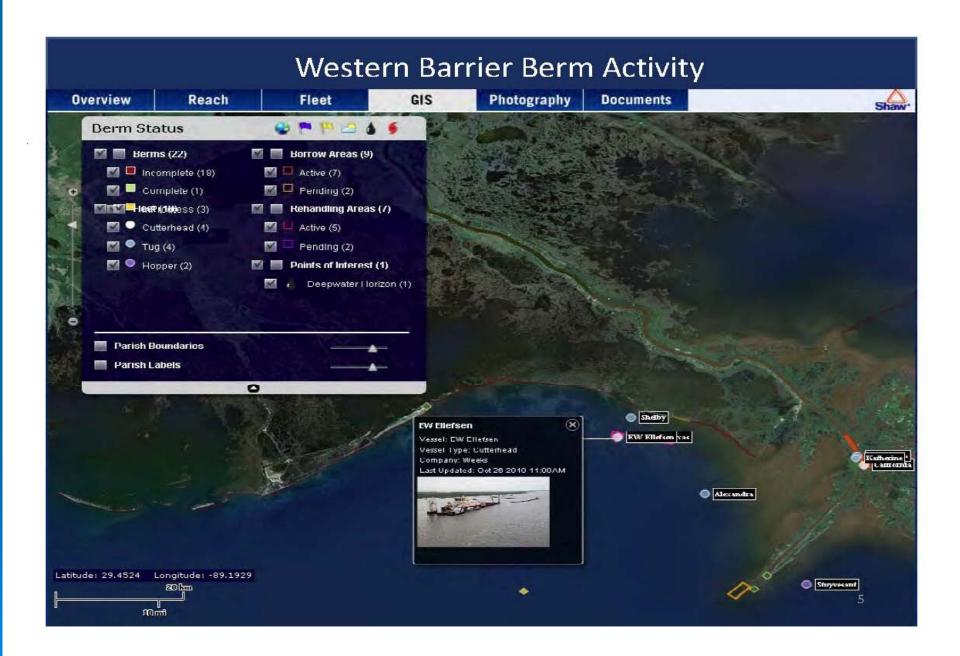




WESTERN BARRIER BERM DETAIL







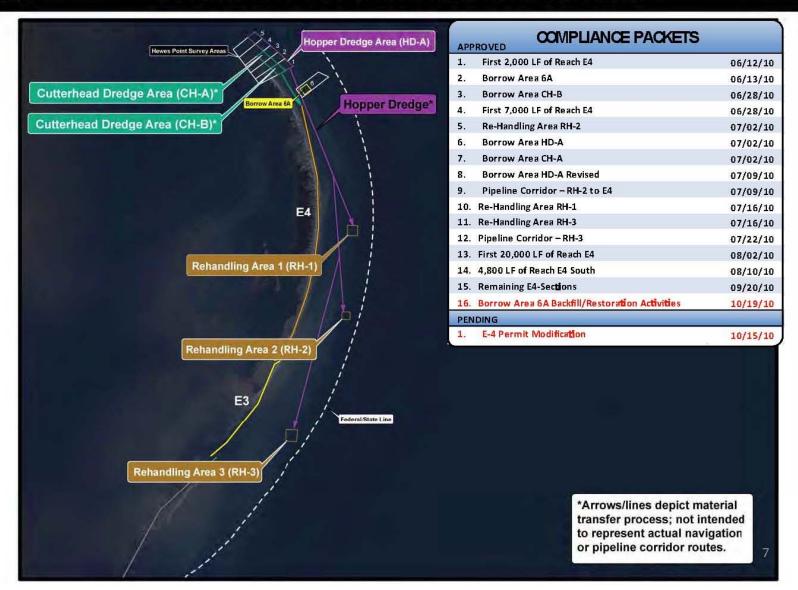
Barrier Berm Progress Through October 25, 2010

Berm ID	Linear Foot Under Construction	Linear Foot to Elevation (+6 foot)	35E Handling Site (yd³)	25-5 Handling Site (yd³)	Hewes Point (yd³)	RH-2 Handling Site (yd³)	RH-2	St. Bernard Shoals (yd³)	Berm (yd³)
Reach W8	3,250	2,550							564,955
Reach W9	12,449	12,449	5,017,108						2,281,314
Reach W10	8,830	8,230		2,562,324					1,162,519
Reach W11		0							
Reach E3		0							
Reach E4	24,747	24,407			3,162,672	471,634	438,546		3,601,218
6A Refill					533,000				
Linear Foot Total	49,276	47,636							
Volume			5,017,108	2,562,324	3,695,672	471,634	438,546	0	7,610,006
Summary									16,194,072

Material from Hewes Point directly to Berm

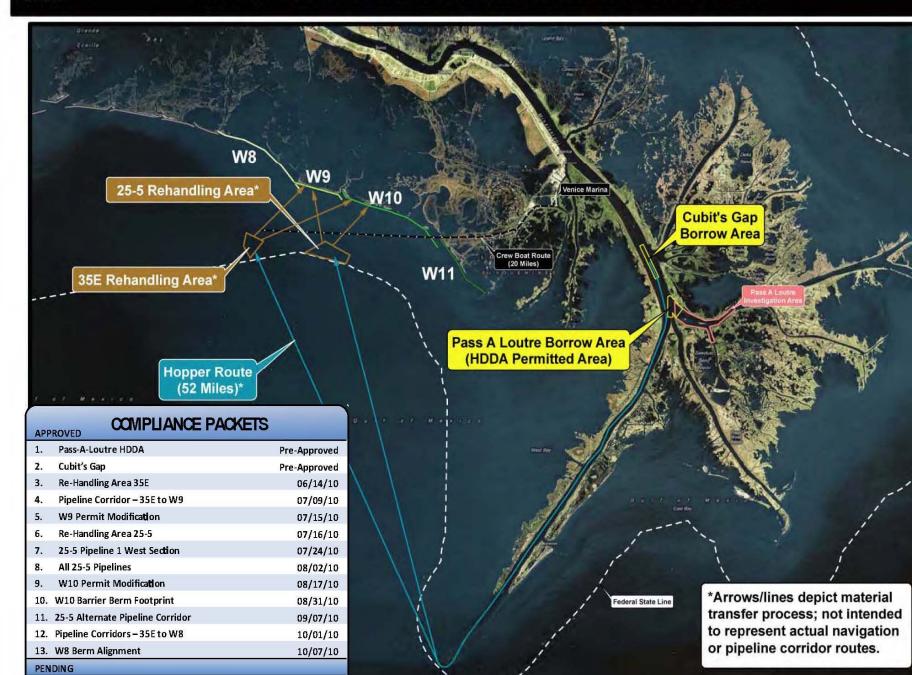


EASTERN BARRIER BERM DETAIL





WESTERN BARRIER BERM DETAIL



CURVE BALLS

- ➤ After everything geared up, only two weeks at full capacity
- >Turtle issues shut down hoppers
- **>**SAFETY
- Still working, lack of commitment makes tough to plan.



Lessons learned. Take aways?

- > We can do this. This is what we do.
- What an opportunity for engineers/scientists
- Good material in Gulf/River
- > Equipment versatility is important
- Engineering flexibility is important
- Need team effort owner, regulators, and dredgers.
- Need progressive thinking regulators

Lessons learned. Take aways?

- Reporters don't care about facts
- Real experts aren't relevant
- Short term impacts?
 - Long term impacts?
- Gulf shorelines need protection, study, and action.
- US Shorelines need protection, study, and action.

Engineers can be heroes too!!

It's Not The Steel, It's the Paper! WE CAN DO THIS!