Regional Coordination Meeting II

April 26, 2006

Overview

Colonel Taylor welcomed the group and asked two questions:

- What could we have missed or overlooked in the planning process?
- What else could or should be incorporated into the comprehensive report?

He explained the screening criteria were used to select the near-term projects:

1. Was the problem related to or caused by the hurricanes of 2005 and included in the December 2005 Authorization from Congress?

2. Can the solution be implemented in the near-term? (Report to Congress 30 June 2006)
   - Is it pre-engineered?
   - Can it be easily done?
   - Does the project have little to no opposition and no unresolved issues?

3. Does the action compliment the effective work of others and supports the objectives of State and/or local plans for recovery of Coastal Mississippi?

Projects not recommended for the June 30th 2006 Report to Congress will be reviewed further for potential inclusion in the December 31st 2007 Comprehensive (Long-Term) Report.

Further opportunity for Public and Agency review will occur during the Comprehensive Analyses.

He explained that the projects identified in the near-term study are strictly for the first round report due June 30, 2006 and that further study will be taking place for the long-range comprehensive study. He also explained that a videoconference update and Federal briefing with General Walsh is scheduled for April 27.

Subject matter experts from the Corps presented an overview of the following near-term projects that had been selected by County:

Jackson County Projects

- Shearwater Bridge Erosion Control
- Pascagoula Beach Boulevard Restoration
- Franklin Creek Floodplain Restoration/Franklin Creek Pecan Hydrology Project
- Upper Bayou Cassotte Flood Damage Reduction
- Gautier Hurricane Storm Damage Reduction and Ecosystem Restoration

Harrison County Projects

- Harrison County Beach Ecosystem Restoration and Erosion Control
- Long Beach Interior Drainage Hurricane Storm Damage Reduction (includes canals 2 & 3)
- Courthouse Road Wetlands Ecosystem Restoration and Preservation

Hancock County Projects

- Bay St. Louis – Downtown – Hurricane Storm Damage Reduction (HSDR)
- Cowand Point Seawall Erosion Control
- Clermont Harbor Seawall HSDR and Erosion Control
- Bayou Caddy Shore Protection and Ecosystem Restoration
- Hancock County Communities Flood Damage Reduction
- Jackson Wetland Restoration

Four additional proposals and a study question were offered as additions to the near-term project list. These are currently being evaluated.

1. Pascagoula Drainage.
The City has a list of modeling and actions for a series of scenarios. Has this been included/considered?
Doug Otto: We've included what we had, but ***if additional data is available, please share and follow up with Tom Smith.*** *Specific project modeling data is available for Bate Street and every main drainage system for the City. Jackie will have this to Doug tomorrow. There will be follow-up to see if the plans meet criteria.*

2. Create an inter-jurisdictional inter-agency group to meet regularly to discuss the implications of development in the context of post-Katrina planning efforts.
This will help prevent degradation of the environment based on decisions that are being made at the State/Local level, This is intended to link decisions made by State/Local building permits to Corp permitting and bigger picture planning across Federal Agencies, Prevent degradation of the environment based on decisions that are being made at the State/Local level

3. Add 2 foot dunes from Washington street south to the existing Hancock CO project.
Todd Boatman: It's a small enough cost that integrating the 2 may be practical. From Washington Street south there is enough beach that this makes sense.

4. Upper reaches of Davis bayou near hwy 90 (north side) that drains to Davis Bayou.
Can any help be expected there?
Tom Smith: it's in the long-term study. Additional study and modeling is taking place. If you have additional studies and data that we can include, we'll expedite. County data on Davis Bayou is available and will be shared with the Corps planning team.

5. A question was raised about comments entered from the first meeting.
Several study recommendations were made that may not have made the long-term list. They may be in scope or out of scope for the comprehensive study plan. ***Most important was Marilyn's question from MS Dept of State:***

- *We need a definitive report of what happened, where and why in Katrina. What Category storm hit and where? What was surge and where? What were tides and where? What were wind speeds and where? How much rainfall? How accurate were predictions? Why the disconnect between category rating and obvious impact/risks to humans? And what is being done about it?*

- *Establish the time sequence of wind and surge.*

- *Marilyn was referred to Ivor van Heeden's study from LSU. This may be adequate, but we need to address to be able to define if studies like this are in, or out of bounds for the proposed project list.*

A statement on how study recommendations made at the first Regional Coordination Meeting are being handled would resolve this question. There were three additional suggestions raised at this session:

- *Study the causes of dune blowouts on barrier islands.*
- *Study infrastructure impacts from ABFE effects, i.e. fire protection pressures for taller buildings, exposed sewer service and gas lines to residential structures, public facilities and ADA accessibility, vehicle-accesses buildings, etc.*
- ***Long term sediment dynamics study for the entire MS sound**. Understand how the sediment moves around and therefore provide a long-term comprehensive understanding of barrier island dynamics (erosion and accretion) as well as marsh restoration and heath along the shoreline.*

Finally, participants from each session were asked to review the list of potential comprehensive, long term projects that had been developed by Corps planers and first-round meeting participants using a 1-10 scale. A score of 10 meant highest priority – 1 lower priority. This poll should be interpreted strictly as an expression of preferences of workshop attendees, not in any way a complete measure of public sentiment or a final decision. It is simply the preferences of workshop attendees, whomever and how many they were. A preliminary ranking of the highest rated comprehensive planning preferences included the following projects:

Jackson County

1. Greenwood Island Ecosystem Restoration
2. Robert Hiram Bridge (Gautier)
3. Restore natural drainage ways upper Mary Walker Bayou (vic Northwood Hills, Rolling Meadows, and Bayou Oaks subdivisions)
4. Gautier Hurricane Storm Damage Reduction and Ecosystem Restoration
5. Front Beach Road Wetlands
6. Davis Bayou Ecosystem Restoration
7. Gautier Hurricane Storm Damage Reduction and Ecosystem Restoration
8. Rebuild and enlarge Marsh Island
9. Franklin Creek Floodplain Restoration/Franklin Creek Pecan Hydrology Project
10. Grand Batture Island Ecosystem Restoration

Harrison County

1. Deer Island re-nourishment of south side.
2. Turkey Creek: Mt. Pleasant UME Audubon site 41, Tidal Creek restoration of flood plain.
3. Acquire wildlife corridors in lands that repeatedly flood
4. Possibly add height to the existing beach elevation and redevelop lost dune vegetation.
5. Turkey Creek watershed Greenway
6. Reconsider dioxin cleanup on navy base post Katrina.
7. Develop Concrete Staging Center in Industrial Canal. Develop Harrison county industrial canal artificial reef staging area to stockpile concrete debris for oyster reef and other useful projects.
8. Harrison County Beach Ecosystem Restoration and Erosion Control
9. Deer Island Ecosystem Restoration
10. D'Iberville Wetlands Ecosystem Restoration

Hancock County

1. Jordan River Shores Ecosystem Restoration. . Buy out landowners, return hydrology, begin mitigation, prohibit new/more development
2. St. Louis Bay Comprehensive Ecosystem Restoration
3. Bay St. Louis Downtown HSDR
4. Bayou Caddy Shore Protection and Ecosystem Restoration
5. Shoreline Park buyout
6. Hancock County Communities Flood Damage Reduction
7. Hancock County Beach Ecosystem Restoration and HSDR
8. Protect Hancock County wetlands from filling for development
9. 2ft dune from Washington St. South where appropriate
10. Pearlington Ecosystem Restoration - Buy-out homeowners and return hydrology

Coastwide

1. Inspect and Rehabilitate Wastewater and Piping Systems
2. Repair existing bulkheads or other structural drainage components that were damaged during the storm to reduce future failures during similar events.
3. Form a monitoring network that will survive and function throughout a major storm to provide data that is critical to emergency managers
4. Develop additional Offshore Breakwaters or Sand Dunes where determined most Beneficial through Modeling
5. Include repair standards in building codes
6. Marsh Restoration where Feasible
7. Maximize Beneficial Use of Dredge Materials
8. Partnership Efforts with Louisiana to Marsh Island Areas
9. Wetland area buy-outs
10. Add wetlands along main drainage systems in each location to increase capacity of the systems during rainfall and surge flooding events.

Discussion Notes: Jackson County

- On item 66A: approach quickly, then study drainage of the floodplain to ensure we can mitigate future sedimentation & ensure waterways remain clear in the future

- On 66: is the circle definitive or an approximation? It doesn't appear to include everything to the east
  Tom: an approximation

Proposed Additions to Comprehensive Planning:

Raising the road at Ocean Springs.
The road here needs to be raised. We put this into the longer term plan to raise the road or build walls that would offer some level of long-term protection. Don't have enough data to make the near-term list. This proposal has not been tabled, needs to be examined more thoroughly

Davis Bayou/Bellfountain Beach
Todd: both had environmental issues we didn't have time to work though before the report is due to congress

Front Beach/East Beach.
Is it safe to assume this will be on future lists?
Tom Smith: This is only the near-term list (6/30 deadline) includes report and doc review by several agencies.

Bates Road Drainage Project
Gautier concerns on 2 bridges: evacuation route (1 way in/out). An alternate way out is needed. Ecological/beneficial use applied. Wetland/marsh restoration discussed. If this piece of property is lost everyone loses out.

Shepard's State Park (bridges) Concerned that these 2 bridges are on the long-term plan as it appears they meet all of the necessary criteria. Bates Street Drainage north of 90. Drains 1/3 the city of Pascagoula.
Doug Otto: Many problems are rainfall runoff, not storm surge. Excessive runoff situations are modeled for the resulting outputs. Time was the factor limiting modeling…deferred to long-term planning. Flow diversion, enlarging, retention.

Facilitator: we have a tremendous amount of these. Is modeling underway for the near-term hydrology?
Doug Otto: part of what's being examined for long-term. Interior drainage pathways that aren't working the way they should. Appears to be a simple problem, but the analysis is complex.

Facilitator: Modeling is included in the comprehensive planning.

Raising Robert Hiram/Graveline Road at Shepard's State Park Bridges
Tom Smith: One of the bridges has had water backup for years. Before we raise the bridge, the water must be evaluated with respect to the environment. We were not confident this could be completed short term. The evaluation team felt this needed to be analyzed more completely long-term

St. Andrews Pinehurst Community flooding
The big ditch that drains this water away didn't make the list.
Doug Otto: This is similar to the Pascagoula question. We want to model the different hydrolics that are possible and select the best solution for solving this. Not time to complete analysis in the short term.

Facilitator: Why not clean out what's there short-term?
Doug Otto: wasn't this filled in as a result of the storm?
No. It was just cleaned out prior to Katrina

Facilitator: This is not the long-term hydrology. What about getting this debris out to restore the flow generically?

Bellfountain Beach Breakwater Project?
Tom Smith: This was a project we've talked about for a long time. We looked at what we could evaluate and have decent assurance we could begin construction on them. We concluded further analysis was needed. It's in the 18-month period.

Facilitator: What are the loose ends?
Doug Otto: This included critical sturgeon habitat and a series of segmented offshore breakwaters. It's a good, but complex project. This one will take a bit longer to get an answer.

Concerns on near-term focus were expressed. Are we losing focus on the longer term benefits of coastal restoration? Also impact on water quality…seems to be missing from some of these projects. I would like to see increased emphasis on natural solutions and restoration. More wetlands are needed. Thinking long-term, we must consider the impact of climate change and it's potential implications.

Facilitator: Leveraging the Governor's plan for coastal restoration as our baseline. What's being presented is the near-term planning.
Todd: Marsh creation on Deer Island and Bayou Caddy are part of the near-term.

Doug Otto: We're very concerned about sea levels and subsidence. The near term plan recognizes this and is attempting to quantify it.

Facilitator: one of the coastwide projects named reestablishing index points across the coast.
Doug Otto: That's correct. It's a little scary to project the implications of what 2-3 feet of sea level rise might mean.

Gautier submitted a drainage project for C Byrd Road. Same analysis?
Tom Smith: Sticking point on increasing the culvert size was where the water goes after Simplex. From that point we felt this needed to be looked at more globally 64.

Area off Magnolia street in Moss Point that had extensive flood damage.
Cleaning/dredging may be needed. Tom: connects with West Bayou? Probably interconnects. Make sure this is part of our list.
Tom Smith: We'll add Magnolia to West Bayou in this review.

Facilitator: Is there anything else we've missed?

Upper reaches of Davis bayou near Highway 90 (north side) that drains to Davis Bayou. Can any help be expected there?

Tom: it's in the long-term study. Additional study and modeling is taking place. If you have additional studies and data that we can include, we'll expedite. County data on Davis Bayou is available and will be shared with the Corps planning team.

What is causing subsidence on the Mississippi Coast?
Doug Otto: coastal sediments are still being deposited. LA is subsiding at 1-4 feet over the next 100 years. MS is inches to a foot over 100 years. Unconsolidated coastal sediments are still being compressed. Coupled with a rising sea level, we have a serious factor that has to be considered for the future.

The proposal for sediment removal from marshes is unclear. Why remove sediment? It seems we should be adding it.
Todd Boatman: These are drainage ways to improve saltwater exchange. We don't want to do any damage to existing marshes. One was added in Hancock CO to improve tidal exchange; it was included on the near-term list for marsh survival.

Is anyone from MS DEQ present? Drinking water/Wastewater/Stormwater plans should all be consistent. Are these efforts being coordinated?
Todd Boatman: Our last meeting with DEQ was Friday
Corps: Our mandate requires close liaison with all State agencies. I believe we are delivering on this.
Todd Boatman: Some of these long-term projects wound up there.

How realistic is it that any of our wish list projects will be accomplished?
Corps: short-term recommendations and a comp report are being developed. It will go through HQ and ultimately on to Congress. It's impossible to predict what Congress will appropriate.

We appreciate all the Corps' efforts!

As we examine the big picture along the coast, will the "big-uns" eat the "little uns?" Is this going to be business as usual? Will smaller entities be given fair consideration here?
Corps: we'll provide recommendations, you provide the lobbying. This is based on our best science and recommendations for the projects. The Corps usually works with cost share partners. Many unique situations need to be worked thorough.

Coleman: What is critical to document will be the benefits under various conditions (economic/environmental/social) of each projects. Our team will be examining all of these. Anything you can share is helpful.

Todd Boatman: The Assistant Secretary of the Army was clear that we establish the screening criteria and follow strictly on all projects. This is where the near-term list originated. It was not political in any way. Believe this was a fair representation irrespective of political clout
Corps will provide facts. You provide lobbying

Gordon: website shows 37 projects coastwide. Is that where we stand?
Yes: broad sweep.
Corps: Coastwide is dune system on top of Harrison CO beach. Authorized to go in and repair. The only coastwide near-term project is dune restoration. The rest of the projects are long-range.

Facilitator: The next time you see this list it'll be renumbered with an improved numbering system. Nothing has been deleted from this list. These are strictly recommendations, not necessarily within the Corp's mission. Some of these Federal assignments may have to be worked out between FEMA/Corps and Coast Guard.

Discussion Notes: Harrison County

Recommended Near-term Project Overview

Todd Boatman: 13 Restoration of 26 miles of CO beach is being done under flood control & emergency supplemental. Beach restoration of dune system is covered under this project.

Tom Smith: Drainage project at Long Beach 27. Immediate/spot fixes to relieve short-term problems. Additionally these will be reviewed for flow of water throughout the watershed. Watershed flow and additional needs to improve drainage are being examined. Spot dredging/sediment removal to improve flow in the area

Todd Boatman: These 3 are the ones that met screening criteria. (50) has 14 braces across the drain were damaged or destroyed. Additionally, a small marsh will be created (7500 sq ft).

Additional Projects/Comments

Oyster Bayou restoration at Beauvoir This may be on the list under another name

Deer Island restoration Flood control and coastal restoration act is underway too. Tidal creeks and sealing the western breach are 2 priorities. Flood control coastal emergencies project 12/05 to restore the island to it's pre-1900 footprint. Not being considered as part of this because it's already been authorized.

Comment: Concerns on the pre-1900 footprint. Are we sure what a pre-1900 footprint is? May be unrealistic. These islands historically have shifted a lot. Todd Boatman: Corps will be coordinating with FWS and MS.

Unprecedented opportunity to preserve land that doesn't have houses and transform to dunes/barriers. This may be a bigger notion that we can do with/without the Governor's office. *Todd Boatman: Lot of discussion/interest on this issue. Our screening criteria include little or no opposition to the plan. This took it off our short-term list. It will be explored in the comprehensive plan.*

Facilitator: Despite a lot of discomfort from attendees we asked this at our public workshops. This question was asked. We did see a lot of opposition. Some of this was EJ/fairness based, some of this was from natives. A very contentious issue that will be essential to address. Will officials be willing to step up on this.

Will this be in the plan? It will be included in the long-term comprehensive plan.

Questions

Downtown Seawall in BSL? 75 ft. From hwy 90 to about Washington Street.
Tom Smith: 75 out occurs only in the downtown district. Area to the north will be replaced in place

Coastwide Projects

23 Big concern about Complete snagging/clearing to restore the capacity of existing drainage? *Corps will not be targeting complete removal…not a slash & burn operation*

Doug Otto: Sand (37) movement has to be modeled for effects on salinity/turbidity. This is why these were moved to the comprehensive plan.

Additional Questions/Comments/MIAs on the Project List?

- ***Concerns that in the rush to restore/rebuild the tax base we'll lose more in water quality loss than we'll achieve in wetlands restoration. These decisions will be made by the state and those who grant building permits. Perhaps these processes should be linked. Hard to keep all the plans straight. Everyone's planning. Decisions are being made now (sometimes ahead of the plans). This stuff is great, but we might be restoring wetlands where inappropriate fills are taking place***
- ***Happening in certain cities.***
- ***We've got to try to link these decisions so they all work together***
- ***Keep a strong eye on preventing degredadation of the environment based on decisions that are being made at the State/Local level***
- ***Let's try to make this as comprehensive We've got to try to link these decisions so they all work together***
- ***I hear this a lot, but I can't change policies and procedures at the local level.***
- ***Cities/Counties issuing building permits are not linked to Federal Authority and CWA.***
- ***Local decisions are being made that are not consistent with Corps planning and guidance***
- ***Wetland permitting are often being ignored and not enforced. Corps does examine those***
- ***Can city building permitting process be linked to things that are illegal without a wetland permit?***
- ***CoIT: we know there is likely to be a significant amount of coastal rebuilding. Trying to get the regulatory decision makers linked***

A question was raised about comments entered from the first meeting. Several study recommendations were made that may not have made the long-term list. They may be in scope or out of scope for the comprehensive study plan. For Example - Marilyn's plan from MS Dept of State:

- We need a definitive report of what happened, where and why in Katrina. What Category storm hit and where? What was surge and where? What were tides and where? What were wind speeds and where? How much rainfall? How accurate were predictions? Why the disconnect between category rating and obvious impact/risks to humans? And what is being done about it?

    Establish the time sequence of wind and surge.

Is this being covered by someone else? If not, it should be carried forward to the comprehensive study list.

Additional study recommendations from meeting 1 include the following:

Study Recommendations

- Study the causes of dune blowouts on barrier islands.

- Study infrastructure impacts from ABFE effects, i.e. fire protection pressures for taller buildings, exposed sewer service and gas lines to residential structures, public facilities and ADA accessibility, vehicle-accesses buildings, etc.

- **Long term sediment dynamics study for the entire MS sound** Understand how the sediment moves around and therefore provide a long-term comprehensive understanding of barrier island dynamics (erosion and accretion) as well as marsh restoration and heath along the shoreline.

Discussion Notes: Hancock County

How many acres: Bayou Caddy?
18 acres. A relatively small area, but the highest erosion rate.

Comment: Are you aware a previous mitigation site to the north of this is being filled for building condos?
Is anyone ever going to weigh in on this issue (Facilitator)?
How do you coordinate this?
Todd: we're aware of this process

Jubilee Casino wetlands violation/EPA

Hancock CO communities Flood damage: Somehow we have to get cities to step up. What the Col. Is saying is right. Cities are not looking at local flood events, but they should be. Seems we have a perfect opportunity to increase riparian corridors along drainage ways, sloping them more gently.

Tom: 2-step process. Storm surge brought sediment as well as water (2-4 ft). We plan on removing this from several communities in the area. Navigation and commercial issues are being addressed.

2. Do a watershed evaluation to determine how water is comprehensively draining and the best ways to get it from inland to the sea. This will account for canals and manmade structures, future maintenance and keeping them clear with as little effort as possible.

Hope somebody understands that digging the ditch deeper doesn't really help with drainage!
Tom: we get it. You can dig to China, you'll have the same amount of water!

Myth busters might be an approach

Jackson Marsh?

Did we miss anything on the short-term?

What about the dunes on the beach from Washington St. South? Should be on the list.
Todd; this should be on the long-term list.
Doug Otto: the road is so low, it appears more protection is needed. Raising the road

Can you widen the beach?
The land is so low, we struggled with figuring out how to provide any significant protection in this area

Is there an interim solutions like at least getting sea oats going to hold on to what we've got?
Todd Boatman: Integration is what we're really after. If a seawall is the solutions maybe 2 foot dunes are not the way to go

Why can't you do both?
2 foot dunes project from Washington street south
Oates can capture some of the wind-driven sand
Todd Boatman: It's a small enough cost that integrating the 2 may be practical. From Washington Street south there is enough beach that this makes sense

Land based surface runoff -erosion of beach. Add this to long-term planning
Landside drains that cross the street/walking tracks create a beach erosion problems after a rain. Grading the beach isn't the long-term solution. County's answer.

What is the intent on moving the seawall out 75 feet?
Tom Smith: not just in one spot. Starting at HWY 90 it will be filled
Margaret: I'd like to see that plan…To Do: send this plan out for comment (Tom)

Agency comment/peer review is built into these suggestions

No funding authorized to do this yet. Comment will be built into any of this that gets authorized.

Utilities shouldn't be buried under the road
Additional parking along the street

Big question: what's the minimum push necessary to accommodate the utilities?
Concerns from USFWS and others raised
We've been working with city/county
Corps didn't make this number up
We're listening to you on where to place it
Coordinating with all groups on where to locate it. The 75 ft is not a Corps criteria

Fat sleeper fish in the ditch

Investigate units that wouldn't load. Random #1, #3, then #6. Logged off. Relogged. Then they worked. Interference? Distance? Found one with a card that was not well seated and corrected.

Comprehensive Planning Project Poll Results

Participants from each session were asked to review the list of potential comprehensive, long term projects that had been developed by Corps planers and first-round meeting participants using a 1-10 scale. A score of 10 meant highest priority – 1 lower priority.

This poll should be interpreted strictly as an expression of preferences of workshop attendees, and not in any way a complete measure of public sentiment or a final decision. It is simply the preferences of workshop attendees, whomever and how many they were.

Jackson County Comprehensive Planning Project Poll 1

Alternative	Number of Votes in Each Rating												
	Average Ranking	10	9	8	7	6	5	4	3	2	1	Total	STD	Number of votersN
1. Greenwood Island Ecosystem Restoration	8.17	3	0	2	0	0	0	0	1	0	0	49	2.71	6
2. Robert Hiram Bridge (Gautier)	7.86	4	0	1	0	0	0	1	1	0	0	55	3.08	7
3. Restore natural drainage ways upper Mary Walker Bayou (vic Northwood Hills, Rolling Meadows, and Bayou Oaks subdivisions)	7.83	2	0	3	0	0	0	0	1	0	0	47	2.56	6
4. Gautier Hurricane Storm Damage Reduction and Ecosystem Restoration	7.75	2	1	0	0	0	0	0	0	1	0	31	3.86	4
5. Front Beach Road Wetlands	7.71	1	2	3	0	0	0	0	0	1	0	54	2.63	7
6. Davis Bayou Ecosystem Restoration	7.71	4	0	1	0	0	0	1	0	1	0	54	3.35	7
7. Gautier Hurricane Storm Damage Reduction and Ecosystem Restoration	7.50	2	1	0	0	0	0	0	0	0	1	30	4.36	4
8. Rebuild and enlarge Marsh Island	7.40	0	1	2	1	0	1	0	0	0	0	37	1.52	5
9. Franklin Creek Floodplain Restoration/Franklin Creek Pecan Hydrology Project	7.25	3	1	1	0	1	0	0	1	1	0	58	3.24	8
10. Grand Batture Island Ecosystem Restoration	7.00	1	1	1	0	1	0	0	0	1	0	35	3.16	5
11. Belle Fontaine Marsh	6.83	2	0	1	1	0	0	1	0	1	0	41	3.25	6
12. Ecosystem restoration along Hwy 90, Jackson County	6.75	1	1	1	0	3	1	1	0	0	0	54	2.05	8
13. Old Spanish Trail Comprehensive Flood Damage Reduction	6.75	2	0	0	0	1	0	0	0	0	1	27	4.27	4
14. Old Spanish Trail Comprehensive Flood Damage Reduction	6.67	1	0	0	0	1	0	1	0	0	0	20	3.06	3
15. Shearwater Bridge Erosion Control	6.50	2	0	0	0	1	1	2	0	0	0	39	2.81	6
16. Bayou Outlets on the Mississippi Sound that require actions to remove deposited siltation	6.50	3	0	0	0	0	0	0	3	0	0	39	3.83	6

Alternative	Average Ranking	Number of Votes in Each Rating												Number of votersN
		10	9	8	7	6	5	4	3	2	1	Total	STD	
17. Pascagoula beaches, offshore breakwater/dunes/reefs/marshes to dissipate wave energy	6.40	1	2	0	0	0	0	0	1	0	1	32	4.1	5
18. West Pascagoula Delta Flood Damage Reduction and Ecosystem Restoration/Study	6.33	0	1	2	0	1	0	1	1	0	0	38	2.42	6
19. Jackson County Marsh Outlet Ecosystem Restoration	6.33	0	2	0	0	3	0	0	0	1	0	38	2.58	6
20. Restore natural drainage ways upper Bayou Castelle (vic Fishhawk Rd, Meadow Dale Dr., Longwod Dr, and Bayou Castelle Dr)	6.33	1	0	3	0	0	0	0	1	0	1	38	3.5	6
21. Bennett Bayou tidal marsh restoration	6.25	1	1	0	0	0	0	1	0	1	0	25	3.86	4
22. Cedar Point/West River-Restore beaches, sand, work, sediment management in this area	6.25	2	0	0	0	0	0	0	1	1	0	25	4.35	4
23. Gautier Hurricane Storm Damage Reduction and Ecosystem Restoration/Ladnir Rd	6.20	2	0	0	1	0	0	0	0	2	0	31	4.02	5
24. Upper Old Fort Bayou Comprehensive Flood Damage Reduction/C. Byrd Road Drainage	6.17	1	0	1	1	1	0	0	2	0	0	37	2.79	6
25. East Beach Road Ecosystem Restoration	6.17	1	0	2	0	0	1	1	0	1	0	37	2.99	6
26. Upper Old Fort Bayou Comprehensive Flood Damage Reduction	6.00	1	0	1	1	0	2	1	1	0	0	42	2.45	7
27. Round Island Ecosystem Restoration/Round Island Lighthouse Relocation	6.00	1	2	0	0	0	1	0	0	1	1	36	3.9	6
28. Graveline Rd Bridge at Shepard St Park (County)	6.00	3	0	0	0	0	0	0	1	1	1	36	4.43	6
29. Relocate Pascagoula WWTP out of surge area	6.00	3	0	0	0	0	0	1	0	0	2	36	4.52	6
30. Pascagoula Beach Restoration. Dunes, grasses, trees, with intermittent pockets of sand beach	6.00	2	0	1	0	0	0	0	0	0	2	30	4.64	5
31. Drainage improvements – same as 65	6.00	2	0	0	0	0	0	0	1	0	1	24	4.69	4
32. Biloxi Back Bay	6.00	1	0	0	0	0	1	0	1	0	0	18	3.61	3
33. Old Spanish Trail Comprehensive Flood Damage Reduction/Drainage	6.00	1	0	0	0	1	0	0	0	1	0	18	4	3
34. Use jetties to prevent sediment flow clogging channels	5.83	1	1	1	0	0	0	1	1	0	1	35	3.66	6
35. Gautier improvements to drainage. Same as B.	5.75	1	0	1	0	0	0	0	1	1	0	23	3.86	4
36. Gautier, drainage improvements. Same as C	5.75	1	0	1	0	0	0	0	1	1	0	23	3.86	4

Alternative	Average Ranking	Number of Votes in Each Rating										Total	STD	Number of votersN
		10	9	8	7	6	5	4	3	2	1			
37. Gautier improvements to drainage. Same as D.	5.75	1	0	1	0	0	0	0	1	1	0	23	3.86	4
38. Front Beach Blvd. Ecosystem Restoration and Erosion Control	5.71	0	1	2	0	0	2	0	1	1	0	40	2.69	7
39. Dredge/clear area in front of beachfront outfalls.	5.60	2	0	0	0	0	0	1	1	0	1	28	4.16	5
40. Monster Ditch/Ocean Springs Flood Damage Reduction	5.57	2	0	0	0	0	2	0	3	0	0	39	3.15	7
41. Dredge Davis & Simmons Bayous to include all connecting bayous to help prevent flooding.	5.50	2	0	0	0	1	0	0	1	2	0	33	3.78	6
42. Upper Old Fort Bayou Comprehensive Flood Damage Reduction/C. Byrd Road Drainage	5.40	1	0	0	0	2	0	0	1	1	0	27	3.13	5
43. Divert water from Escatawpa River into Bayou Cumbest to restore freshwater flow to the bayou and improve water quality.	5.25	0	1	0	1	0	0	1	0	0	1	21	3.5	4
44. W River Delta restoration. Bulkhead western channel. Beneficial use. Wave protection for subdivisions.	5.25	0	1	1	0	0	0	0	0	2	0	21	3.77	4
45. West Bayou/Rhodes Bayou Flood Damage Reduction	5.00	1	0	0	0	0	2	0	1	1	0	25	3.08	5
46. Restore natural drainage ways upper Sioux Bayou (vic Laville Subdivision and Westgate	5.00	0	0	1	1	0	0	0	1	1	0	20	2.94	4
47. Restore Bates St Drainage to Open Water	5.00	1	0	0	0	0	1	0	1	1	0	20	3.56	4
48. Upper Bayou Cassotte Flood Damage Reduction	4.80	0	0	2	0	0	0	1	0	2	0	24	3.03	5
49. Pascagoula brown water system study	4.75	0	1	0	0	0	1	1	0	0	1	19	3.3	4
50. Improve the Jackson-county seawall. Provide additional county-wide seawall construction, boardwalks, beach construction, marsh construction, or a combination of these elements	4.67	2	0	0	0	0	0	1	0	1	2	28	4.27	6
51. West End Landing Coastal Erosion	4.60	0	0	1	0	0	2	0	1	1	0	23	2.3	5
52. Beach Park Storm Damage Reduction	4.60	0	1	0	1	0	0	0	2	0	1	23	3.29	5
53. Hydraulic lifting boardwalk/sidewalk as component of seawall/boardwalk improvements.	4.60	2	0	0	0	0	0	0	0	0	3	23	4.93	5
54. New Drainage Channel West Side of Martin Rd Bridge	4.50	1	0	0	0	0	0	1	0	2	0	18	3.79	4

Alternative	Average Ranking	Number of Votes in Each Rating										Total	STD	Number of votersN
		10	9	8	7	6	5	4	3	2	1			
55. Ebb and flow of Intracoastal veins from the MS Sound to rebuild property with the erosion in the bayous near potential project #66.	4.25	1	0	0	0	0	0	1	0	1	1	17	4.03	4
56. Pascagoula Breakwater HSDR	4.20	1	0	0	0	1	0	0	1	0	2	21	3.83	5
57. Pascagoula Beach Blvd. Restoration	4.00	1	0	0	0	0	1	0	0	2	1	20	3.67	5
58. C. Byrd Road Drainage	3.75	1	0	0	0	0	0	0	0	2	1	15	4.19	4
59. Old Mobile Hwy Bridge Failing	3.50	0	0	0	0	1	2	0	0	2	1	21	2.07	6
60. Chicot Road Flood Damage Reduction	3.50	0	0	0	1	0	0	0	2	0	1	14	2.52	4
61. 11th St Bridge and Drainage Canal. Bridge is failing and canal walls are caving in.	3.50	1	0	0	0	0	0	0	0	1	2	14	4.36	4
62. Pascagoula Beach Blvd. Restoration (Boardwalk, beach, and marsh addition along Pascagoula front beach)	3.50	1	0	0	0	0	0	0	0	1	2	14	4.36	4
63. Bayou Chico Beach HSDR/Bayou Chico Bulkhead Rehabilitation	3.40	0	0	1	0	0	0	0	2	1	1	17	2.7	5
64. Beach Boulevard Erosion Control	3.40	1	0	0	0	0	0	0	1	1	2	17	3.78	5
65. 11th St Bulkhead Rehab	3.20	1	0	0	0	0	0	0	0	2	2	16	3.83	5
66. W Land Lake Pascagoula. Dredge to recover retention qualities and install new drainage pipes to north.	3.00	0	0	0	0	0	1	0	1	2	0	12	1.41	4
67. Re-establish benchmarks Pascagoula city-wide	3.00	0	0	1	0	0	0	0	0	1	2	12	3.37	4
68. Bartlett St Bridge. Bridge has collapsed and is closed	2.50	0	0	0	0	0	1	0	0	2	1	10	1.73	4
69. Inspection & Rehabilitation of Sewer and Storm Piping for Pascagoula	1.67	0	0	0	0	0	0	0	1	0	2	5	1.15	3
70. Study same as 58	1.50	0	0	0	0	0	0	0	0	1	1	3	0.71	2
71. Pascagoula main drainage system restoration including additional wetland side storage. City-wide retention/detention system. Drain barrier valve system.	1.33	0	0	0	0	0	0	0	0	1	2	4	0.58	3

Harrison County Comprehensive Planning Project Poll 1

Alternative		Number of Votes in Each Rating												
Alternative	Average Ranking	10	9	8	7	6	5	4	3	2	1	Total	STD	Number of Voters
1. Deer Island re-nourishment of south side.	10.00	3	0	0	0	0	0	0	0	0	0	30	0	3
2. Turkey Creek: Mt. Pleasant UME Audubon site 41, Tidal Creek restoration of flood plain.	10.00	3	0	0	0	0	0	0	0	0	0	30	0	3
3. Acquire wildlife corridors in lands that repeatedly flood	10.00	3	0	0	0	0	0	0	0	0	0	30	0	3
4. Possibly add height to the existing beach elevation and redevelop lost dune vegetation.	10.00	2	0	0	0	0	0	0	0	0	0	20	0	2
5. Turkey Creek watershed Greenway	10.00	2	0	0	0	0	0	0	0	0	0	20	0	2
6. Reconsider dioxin cleanup on navy base post Katrina.	10.00	2	0	0	0	0	0	0	0	0	0	20	0	2
7. Develop Concrete Staging Center in Industrial Canal. Develop Harrison county industrial canal artificial reef staging area to stockpile concrete debris for oyster reef and other useful projects.	10.00	1	0	0	0	0	0	0	0	0	0	10	0	1
8. Harrison County Beach Ecosystem Restoration and Erosion Control	9.75	3	1	0	0	0	0	0	0	0	0	39	0.5	4
9. Deer Island Ecosystem Restoration	9.75	3	1	0	0	0	0	0	0	0	0	39	0.5	4
10. DÆlberville Wetlands Ecosystem Restoration	9.67	2	1	0	0	0	0	0	0	0	0	29	0.58	3
11. West Ship Island. Continue to re-nourish the north shore of the island east and in front of Fort	9.33	2	0	1	0	0	0	0	0	0	0	28	1.15	3
12. Biloxi Back Bay Watershed Management and Ecosystem Restoration	9.25	2	1	1	0	0	0	0	0	0	0	37	0.96	4
13. Forrest Height Levee :- Restore; Vegetate with native species; Footbridges; Nature trail atop	9.00	2	0	0	1	0	0	0	0	0	0	27	1.73	3
14. Purchase riparian buffers, wetland areas.	8.75	3	0	0	0	0	1	0	0	0	0	35	2.5	4
15. Courthouse Road Wetlands Ecosystem Restoration and Preservation	8.33	1	1	0	0	1	0	0	0	0	0	25	2.08	3
16. Extend South Side of Deer Island. Extend 200 yards to repair breach in island and restore original footprint of island.	8.25	3	0	0	0	0	0	0	1	0	0	33	3.5	4
17. Restore or enhance Mississippi oyster reefs.	8.00	2	0	0	1	0	1	0	0	0	0	32	2.45	4

18. New Sewage Treatment Plant in Woolmarket Lagoon Area - Move the Woolmarket Lagoon to north of I10 north of the area. would protect the citizens by moving the sewage from the flood prone areas:	8.00	1	0	0	0	1	0	0	0	0	0	16	2.83	2
19. Deer Island enhancements. Cap shell middens on western side of the island and restore top soil in maritime live oak forest	7.25	2	0	0	0	1	0	0	1	0	0	29	3.4	4
20. Flood-proof low-lying sewer treatment plants. Lift stations and wells and their electrical and electronic controls.	6.50	0	1	0	0	0	0	1	0	0	0	13	3.54	2
21. Provide Compensation for Persons in Flood-prone Areas to Relocate. Areas prone to flooding, such as Eagle Point, should be offered buy-outs.	6.00	1	0	0	0	0	0	0	0	1	0	12	5.66	2
22. Provide protection of public infrastructure from flooding, surges and sedimentation.	5.50	0	1	0	0	0	0	0	0	1	0	11	4.95	2
23. Highway 90 û Rodeburg to St. Charles St. HSDR and Flood Control	5.50	1	0	0	0	0	0	0	0	0	1	11	6.36	2
24. Tchoutacabuffa River Flood Damage and Watershed Improvement	5.00	0	1	0	0	0	1	0	0	0	1	15	4	3
25. Biloxi Point Flood Damage Reduction	5.00	0	0	1	0	0	0	0	0	1	0	10	4.24	2
26. Flood-Proof Existing Infrastructure	5.00	0	1	0	0	0	0	0	0	0	1	10	5.66	2
27. Reduce toxic exposure which exacerbates storm damage – Dioxin, Creosote, Titanium Dioxide, Gypsum.	5.00	0	0	0	0	0	1	0	0	0	0	5	0	1
28. Rebuild the Harrison County boardwalk with concrete to accommodate pedestrians, BICYCLES, and possibly street vendors.	4.50	0	0	1	0	0	0	0	0	0	1	9	4.95	2
29. Turkey Creek Watershed Improvements	4.00	1	0	0	0	0	0	0	0	0	2	12	5.2	3
30. Long Beach Interior Drainage HSDR (includes ôCanals 2 - 3)	4.00	0	0	0	0	1	0	0	0	1	0	8	2.83	2
31. Utilize HW 90 bridge as artificial reef material	4.00	0	0	0	1	0	0	0	0	0	1	8	4.24	2
32. North Gulfport Interior Drainage	3.00	0	0	0	0	0	1	0	0	0	1	6	2.83	2
33. Turkey Creek Flood Damage Reduction	3.00	0	0	0	0	0	1	0	0	0	1	6	2.83	2
34. Cedar Lake Road Flood Damage Reduction	3.00	0	0	0	0	0	1	0	0	0	1	6	2.83	2
35. Enhance Lee and Bayview Docks for commercial shrimpers.	2.50	0	0	0	0	0	0	0	1	1	0	5	0.71	2
36. Enhance Maine Street Docks for commercial shrimpers.	2.50	0	0	0	0	0	0	0	1	1	0	5	0.71	2
37. Surge gates along Biloxi Bay to help ease drainage areas during storm events	2.50	0	0	0	0	0	0	1	0	0	1	5	2.12	2
38. Gulfport Commercial Harbor	2.00	0	0	0	0	0	0	0	0	2	0	4	0	2
39. Dredge shoaled channels hinfering storm evacuation	2.00	0	0	0	0	0	0	0	0	1	0	2	0	1
40. Wiers (low level dams) within estuaries to control water flow	1.00	0	0	0	0	0	0	0	0	0	2	2	0	2

41. Long Beach Harbor HSDR	1.00	0	0	0	0	0	0	0	0	0	2	2	0	2
42. Evaluate Dredging and Channelization when preparing flood controls from rain events to consider impact for storm surge in costal zone.	1.00	0	0	0	0	0	0	0	0	0	1	1	0	1
43. Harrison County Industrial Seaway Harbor of Refuge	1.00	0	0	0	0	0	0	0	0	0	1	1	0	1
44. Open hw 90 Bridges quickly	1.00	0	0	0	0	0	0	0	0	0	1	1	0	1
45. Long Beach Interior Drainage HSDR (includes Canals 2 - 3)	1.00	0	0	0	0	0	0	0	0	0	1	1	0	1
46. Economic Development of Downtowns. Orderly expansion of municipal harbors along with revitalization of downtowns would provide green space; non-water dependent retail, and a manageable beach blvd. (NOT HW 90).	1.00	0	0	0	0	0	0	0	0	0	1	1	0	1
47. Retention/Detention basin to hold runoff while waiting for surge to go down from Brickyard Bayou.	1.00	0	0	0	0	0	0	0	0	0	1	1	0	1
48. Dredge shoaled marinas	1.00	0	0	0	0	0	0	0	0	0	1	1	0	1
49. Pass Christian Harbor HSDR	1.00	0	0	0	0	0	0	0	0	0	1	1	0	1
50. Provide inland marine vessel storm shelter location with adequate moorings.	1.00	0	0	0	0	0	0	0	0	0	1	1	0	1
51. Construct reservoir or detention system to provide storage for rain events to reduce or prevent flooding along coastal rivers.	1.00	0	0	0	0	0	0	0	0	0	1	1	0	1

Hancock Comprehensive Planning Project Poll 1

Alternative	Average Ranking	Number of Votes in Each Rating										Total	STD	Number of voters
		10	9	8	7	6	5	4	3	2	1			
1. Jordan River Shores Ecosystem Restoration. . Buy out landowners, return hydrology, begin mitigation, prohibit new/more development	9.60	3	2	0	0	0	0	0	0	0	0	48	0.55	5
2. St. Louis Bay Comprehensive Ecosystem Restoration	9.60	3	2	0	0	0	0	0	0	0	0	48	0.55	5
3. Bay St. Louis Downtown HSDR	9.60	4	0	1	0	0	0	0	0	0	0	48	0.89	5
4. Bayou Caddy Shore Protection and Ecosystem Restoration	9.40	2	3	0	0	0	0	0	0	0	0	47	0.55	5
5. Shoreline Park buyout	9.40	3	1	1	0	0	0	0	0	0	0	47	0.89	5
6. Hancock County Communities Flood Damage Reduction	9.33	1	2	0	0	0	0	0	0	0	0	28	0.58	3
7. Hancock County Beach Ecosystem Restoration and HSDR	9.25	2	1	1	0	0	0	0	0	0	0	37	0.96	4
8. Protect Hancock County wetlands from filling for development	9.20	4	0	0	0	1	0	0	0	0	0	46	1.79	5
9. 2ft dune from Washington St. South where appropriate	9.20	4	0	0	0	1	0	0	0	0	0	46	1.79	5
10. Pearlington Ecoystem Restoration - Buy-out homeowners and return hydrology	9.00	3	1	0	0	1	0	0	0	0	0	45	1.73	5
11. Cowand Point Seawall Erosion Control	9.00	2	1	0	1	0	0	0	0	0	0	36	1.41	4
12. Preserve Bayou Caddy Area	9.00	3	0	0	0	1	0	0	0	0	0	36	2	4
13. Clermont Harbor Seawall HSDR and Erosion Control	9.00	1	1	1	0	0	0	0	0	0	0	27	1	3
14. Magnolia Branch Ecosystem Restoration	8.75	2	0	1	1	0	0	0	0	0	0	35	1.5	4
15. Clermont Lake Ecosystem Restoration	8.67	1	1	0	1	0	0	0	0	0	0	26	1.53	3
16. Jackson Wetland Restoration	8.60	2	1	1	0	1	0	0	0	0	0	43	1.67	5
17. Hancock County Comprehensive HSD - Ecosystem Restoration	8.33	1	1	0	0	1	0	0	0	0	0	25	2.08	3
18. Restore all Hancock (all cosatal MS) marshes damaged by storm	8.00	2	0	0	1	0	1	0	0	0	0	32	2.45	4
19. Restore Hancock County Beaches to Pre-Katrina conditions	8.00	0	0	3	0	0	0	0	0	0	0	24	0	3
20. Biloxi Marshes Comprehensive Ecosystem Restoration	8.00	0	1	1	1	0	0	0	0	0	0	24	1	3
21. Ferries to Temporarily Replace Bridges.	8.00	1	1	0	0	0	1	0	0	0	0	24	2.65	3
22. Widen Hancock County Beaches, jump-start dunes	7.25	1	0	1	0	1	1	0	0	0	0	29	2.22	4

23. Open the east Pearl River channel so it can be used by commercial marine traffic from Port Bienville	6.67	0	1	0	0	1	1	0	0	0	0	20	2.08	3
24. Lakeshore Beach Ecosystem Restoration	6.33	0	1	0	0	1	0	1	0	0	0	19	2.52	3
25. Pursue the development of additional breakwater structures in low-use areas.	6.33	1	0	0	0	1	0	0	1	0	0	19	3.51	3
26. Address land-based surface runoff causing erosion on the beach	6.00	1	0	0	1	0	0	1	1	0	0	24	3.16	4
27. WhiteÆs Road Evacuation Route Protection	6.00	0	1	1	0	0	0	0	0	0	1	18	4.36	3
28. WhiteÆs Road Evacuation Route Protection	6.00	0	1	1	0	0	0	0	0	0	1	18	4.36	3
29. Construct a N/S rail link connecting Port Beinville Industrial Park to the Norfolk and Southern Railroad through Stennis Buffer. Hurricanes cause CSXT rail outages which cost > $20,000/day	5.75	0	2	0	0	0	0	0	1	1	0	23	3.77	4
30. WhiteÆs Road Evacuation Route Protection	5.33	0	1	0	0	1	0	0	0	0	1	16	4.04	3

Coastwide Comprehensive Planning Poll

		Number of Votes in Each Rating												
Alternative	Mean	10	9	8	7	6	5	4	3	2	1	Total	STD	n
1. Inspect and Rehabilitate Wastewater and Piping Systems	10.00	2	0	0	0	0	0	0	0	0	0	20	0	2
2. Repair existing bulkheads or other structural drainage components that were damaged during the storm to reduce future failures during similar events.	10.00	1	0	0	0	0	0	0	0	0	0	10	0	1
3. Form a monitoring network network that will survive and function throughout a major storm to provide data that is critical to emergency managers	10.00	1	0	0	0	0	0	0	0	0	0	10	0	1
4. Develop additional Offshore Breakwaters or Sand Dunes where determined most Beneficial through Modeling	10.00	1	0	0	0	0	0	0	0	0	0	10	0	1
5. Include repair standards in building codes	10.00	1	0	0	0	0	0	0	0	0	0	10	0	1
6. Marsh Restoration where Feasible	9.40	4	0	0	1	0	0	0	0	0	0	47	1.34	5
7. Maximize Beneficial Use of Dredge Materials	9.33	2	0	1	0	0	0	0	0	0	0	28	1.15	3
8. Partnership Efforts with Louisiana to Marsh Island Areas	9.25	3	0	0	1	0	0	0	0	0	0	37	1.5	4
9. Wetland area buy-outs	9.20	4	0	0	0	1	0	0	0	0	0	46	1.79	5
10. Add wetlands along main drainage systems in each location to increase capacity of the systems during rainfall and surge flooding events.	9.20	4	0	0	0	1	0	0	0	0	0	46	1.79	5
11. Replace structures with marshes.	9.00	3	0	1	1	0	0	0	0	0	0	45	1.41	5
12. Relocate wastewater treatment facilities out of the surge-prone areas	9.00	3	0	1	1	0	0	0	0	0	0	45	1.41	5
13. Restore grassbeds in MS Sound	9.00	3	1	0	0	1	0	0	0	0	0	45	1.73	5
14. Barrier Islands - Develop Baseline Flora-Fauna Studies	9.00	1	1	1	0	0	0	0	0	0	0	27	1	3
15. Barrier Islands - Combat invasive species	8.80	1	2	2	0	0	0	0	0	0	0	44	0.84	5
16. ++ Create an inter-jurisdictional inter-agency group to meet regularly to discuss the implications of development in the context of post-Katrina planning efforts	8.67	3	1	0	1	1	0	0	0	0	0	52	1.75	6
17. Mississippi Coastal Improvement and Hurricane Storm Damage Reduction Program	8.67	2	0	0	0	1	0	0	0	0	0	26	2.31	3

18. Provide 100 acres of oyster reef restoration	8.60	2	0	2	1	0	0	0	0	0	0	43	1.34	5
19. Review main drainage systems to determine where improvements are most necessary and will decrease future erosion and/or failure issues	8.50	0	1	1	0	0	0	0	0	0	0	17	0.71	2
20. USE selected levels of rip-rap instead of bulkheads for erosion control	8.50	1	0	0	1	0	0	0	0	0	0	17	2.12	2
21. Allow nature to dictate wetlands vs. beach to a greater degree.	8.33	2	0	0	0	0	1	0	0	0	0	25	2.89	3
22. Re-establish Benchmark Information Coastal-wide	8.00	1	1	0	0	0	1	0	0	0	0	24	2.65	3
23. Work with State to authorize transfer of development rights in state statutes	8.00	1	0	0	0	1	0	0	0	0	0	16	2.83	2
24. Provide protection for public facility (i.e., WW treatment plants).	8.00	0	0	1	0	0	0	0	0	0	0	8	0	1
25. Provide an incentive for replacing failing septic systems in rural areas to improve water quality along bayous and bays.	7.75	1	0	1	1	1	0	0	0	0	0	31	1.71	4
26. Barrier Islands - Remove hazardous materials	7.75	1	1	0	0	2	0	0	0	0	0	31	2.06	4
27. Barrier Islands - Evaluate Sediment Transport - Ensure sand mining does not Impact Islands	7.75	2	0	1	0	0	0	0	1	0	0	31	3.3	4
28. Barrier Islands - Restoration	7.60	3	0	0	1	0	0	0	0	0	1	38	3.91	5
29. Mississippi Coastal Barrier Island Restoration	7.40	2	1	0	1	0	0	0	0	0	1	37	3.78	5
30. Barrier Island - Indicate NPS boundaries on project maps	7.33	2	0	0	0	0	0	0	0	1	0	22	4.62	3
31. Complete snagging/clearing, etc. to restore the capacity of existing drainage.	7.25	2	0	0	0	1	0	0	1	0	0	29	3.4	4
32. Barrier Islands - Sensitivity towards barrier islands	7.25	2	0	0	1	0	0	0	0	1	0	29	3.77	4
33. Barrier Islands - Restoration (to a natural setting)	7.20	2	1	0	0	1	0	0	0	0	1	36	3.83	5
34. Remove storm debris (i.e., demolition debris carried in by surge retreat) from aquatic environments. Restore traditional shrimping and fishing areas rendered un-trawlable by storm debris.	7.00	1	1	0	0	0	1	1	0	0	0	28	2.94	4
35. Consider all archaeological sites in planning process	6.75	1	0	1	1	0	0	0	0	1	0	27	3.4	4
36. Coastal Mississippi Artificial Reef Project for Remediation of 2005 Hurricane Damage	6.60	0	2	1	0	0	1	0	0	1	0	33	3.05	5
37. Barrier Islands - Protect From Spills	6.33	1	0	0	0	1	0	0	1	0	0	19	3.51	3

38. Coastal Mississippi Hurricane Evacuation Plan	6.33	0	1	1	0	0	0	0	0	1	0	19	3.79	3
39. Mississippi Coastal Pump Station Inundation Protection	5.50	1	0	0	0	0	0	0	0	0	1	11	6.36	2
40. Consider brown water system to minimize demand on ground and surface waters and limit saltwater intrusion.	5.33	0	0	0	0	1	2	0	0	0	0	16	0.58	3
41. Improve comprehensive retention/detention systems in each entity to reduce rainfall-related flooding.	4.00	0	0	0	0	0	0	1	0	0	0	4	0	1
42. Dredge access channels to existing public marine industry and recreational boating	3.50	0	0	0	0	0	1	0	0	1	0	7	2.12	2
43. Implement a barrier or check valve system to isolate freshwater detention from saltwater inundation during surge events.	3.00	0	0	0	0	0	0	0	1	0	0	3	0	1
44. Mississippi Coastal Urban Communities HSDR	3.00	0	0	0	0	0	0	0	1	0	0	3	0	1

Additions

Create an inter-jurisdictional inter-agency group to meet regularly to discuss the implications of development in the context of post-Katrina planning efforts

Prevent degradation of the environment based on decisions that are being made at the State/Local level

Link decisions made by State/Local building permits to Corp permitting and bigger picture planning across Federal Agencies

Workshop Participants

	NAME	ORGANIZATION	EMAIL ADDRESS	ADDRESS
1	Christy LeBatard	City of Biloxi	Clebatard@biloxi.ms.us	PO Box 429 Biloxi, MS 39530
2	Johnny Groue	City of Ocean Springs		712-A Pine Drive Ocean Springs, MS 39566-1800
3	Andre' L. Kaufman	City of Ocean Springs	akaufman@oceansprings-ms.gov	712-A Pine Drive Ocean Springs, MS 39566-1800
4	Jaclyn Turner	Compton Engineering, Inc.	jturner@comptonengineering.com	156 Nixon Street Biloxi, MS 39530
5	Mike Turner	Hancock Country Port and Harbor Commission	mturner@portandharbor.com	PO Box 2267 Bay St Louis, MS 39521
6	Tim Broussard	J.C. Bos		PO Box Pascagoula, MS 39567
7	John McKay	Jackson Co. Board of Supervisors	john_mckay@co.jackson.ms.us	PO Box 998 Pascagoula, MS 39568
8	Gordon Quesenberry	McCrory Williams Inc	gquesenberry@mcwinc.com	3207 International Drive Suite G Mobile, AL 36606
9	Margaret Anne Bretz	Mississippi Secretary of State's Office	mbretz@sos.state.ms.us	PO Box 97 1400 24th Ave Hatten Building Gulfport, MS 39502
10	Nina Kelson	National Park Service	nina_kelson@nps.gov	1801 Gulf Breeze Parkway Gulf Breeze, Fl 32563
11	Rick Clark	National Park Service, Gulf Islands National Seashore	_rick_clark@nps.gov	
12	Todd Boatman	US Army Corps of Engineers	todd.boatman@us.army.mil	109 Saint Joseph Street Mobile, AL 36602-3630
13	Curtis M. Flakes	US Army Corps of Engineers	curtis.m.flakes@sam.usace.army.mil	109 Saint Joseph Street Mobile, AL 36602-3630
14	Paul Necaise	USFWS	Paul_Necaise @fws.gov	2424 14th St Gulfport, MS 39501
15	James A. Frasier	Northrop *Grumman* Ship Systems	james.frasier@ngc.com	1600 Fairhaven Dr Gautier, MS 39553
16	Melanie Caudill	MS Dept of Wildlife, Fisheries, and Parks (MS Natural Heritage Program)	melanie.caudill@mmns.state.ms.us	2148 Riverside Dr Jackson, MS 39211
17	Thomas E. Smith	US Army Corps of Engineers	thomas.e.smith@usace.army.mil	109 Saint Joseph Street Mobile, AL 36602-3630
18	Douglas C. Otto, Jr.	US Army Corps of Engineers	douglas.c.otto.jr@sam.usace.army.mil	109 Saint Joseph Street Mobile, AL 36602-3630
19	Rich Petaja	FEMA	george.petaja@dhs.gov	710 Elm St Helena, MT
20	Jerry Powers	FEMA	gerardjpowers@comcast.net	4111 Sawgrass Pt Dr B203 Bonita Springs, Fl 34134
21	Joyce Harris Dae	FEMA	joyce.harris@dhs.gov	
22	Harrietta Eaton	City of Pascagoula	heaton@cityofpascagoula.com	P.O. Drawer 908 Pascagoula, MS 39568-0908
23				
24	Joe O'neil	Jackson Co. Road Dept	dora_reed@co.jackson.ms.us	5300 Ball Park Rd *Vancleeve,* MS 39565

	NAME	ORGANIZATION	EMAIL ADDRESS	ADDRESS
25	Dora Reed	Jackson Co. Road Dept	dora_reed@co.jackson.ms.us	5300 Ball Park Rd *Vancleeve,* MS 39565
26	David Chaudron	Jackson Co. Road Dept	dora_reed@co.jackson.ms.us	5300 Ball Park Rd *Vancleeve,* MS 39565
27	Sharon Hayes	EPA	hayes.sharon-e@epa.gov	US EPA GMPO Building 1100, Room 232 Stennis Space Center, MS 39529
28	Jamelyn Trucks	FEMA	jamelyn.trucks@dhs.gov	
29	Charles Davison	FEMA	charles.davison@dhs.gov	
30	Nancy DeLamar	The Nature Conservancy	ndelemar@tnc.org	601 North University Avenue Little Rock, AR 72205
31	Melvin Bradley	FEMA	melvin.bradley@dhs.gov	
32	Bill Powell	City of Gulfport	bpowell@ci.gulfport.ms.us	4050 Hewes Avenue Gulfport, MS 39507