

Appendix A, Applicant and Proposal Information Summary Sheet

Council Member: Department of the Interior U.S. Fish and Wildlife Service, and National Park Service	Point of Contact: Linda Dansby
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Project Identification	
Project Title: Abandoned Oil and Gas Well Plugging and Site Reclamation	
State(s): Louisiana and Texas	County/City/Region: 7 FWS National Wildlife Refuges in Louisiana and 9 NWRs in Texas; and 1 unit of the National Park System in Louisiana and 2 NPS units in Texas
General Location: FWS and NPS areas located within the Gulf Coast region	
Project Description	
RESTORE Goals: <i>Identify all RESTORE Act goals this project supports. Place a P for Primary Goal, and S for secondary goals.</i>	
<input type="checkbox"/> Restore and Conserve Habitat <input type="checkbox"/> Restore Water Quality <input type="checkbox"/> Restore and Revitalize the Gulf Economy	<input type="checkbox"/> Replenish and Protect Living Coastal and Marine Resources <input type="checkbox"/> Enhance Community Resilience
RESTORE Objectives: <i>Identify all RESTORE Act objectives this project supports. Place a P for Primary Objective, and S for secondary objectives.</i>	
<input type="checkbox"/> Restore, Enhance, and Protect Habitats <input type="checkbox"/> Restore, Improve, and Protect Water Resources <input type="checkbox"/> Protect and Restore Living Coastal and Marine Resources <input type="checkbox"/> Restore and Enhance Natural Processes and Shorelines	<input type="checkbox"/> Promote Community Resilience <input type="checkbox"/> Promote Natural Resource Stewardship and Environmental Education <input type="checkbox"/> Improve Science-Based Decision-Making Processes
RESTORE Priorities: <i>Identify all RESTORE Act priorities that this project supports.</i>	
<input checked="" type="checkbox"/> Priority 1: Projects that are projected to make the greatest contribution <input checked="" type="checkbox"/> Priority 2: Large-scale projects and programs that are projected to substantially contribute to restoring <input type="checkbox"/> Priority 3: Projects contained in existing Gulf Coast State comprehensive plans for the restoration... <input checked="" type="checkbox"/> Priority 4: Projects that restore long-term resiliency of the natural resources, ecosystems, fisheries...	
RESTORE Commitments: <i>Identify all RESTORE Comprehensive Plan commitments that this project supports.</i>	
<input checked="" type="checkbox"/> Commitment to Science-based Decision Making <input checked="" type="checkbox"/> Commitment to Regional Ecosystem-based Approach to Restoration <input checked="" type="checkbox"/> Commitment to Engagement, Inclusion, and Transparency <input checked="" type="checkbox"/> Commitment to Leverage Resources and Partnerships <input checked="" type="checkbox"/> Commitment to Delivering Results and Measuring Impact	
RESTORE Proposal Type and Phases: <i>Please identify which type and phase best suits this proposal.</i>	
<input checked="" type="checkbox"/> Project <input checked="" type="checkbox"/> Planning <input checked="" type="checkbox"/> Technical Assistance <input checked="" type="checkbox"/> Implementation <input type="checkbox"/> Program	
Project Cost and Duration	
Project Cost Estimate: Subtotal: \$32,148,827 + 7% LA & TX Oil and Gas Divisions' Administrative Costs to Implement Projects under Cooperative Agreements \$2,250,418 Total: \$34,399,245	Project Timing Estimate: Date Anticipated to Start: As soon as possible Time to Completion: 1 to 3 years, with 1 project requiring 6 years Anticipated Project Lifespan: Long Term - no further action would be needed

Gulf Coast Ecosystem Restoration Project Proposal

Type of Proposal: Project comprising a group of 52 individual projects in 16 FWS areas and 3 NPS areas within the Gulf Coast region in Louisiana and Texas

Project Title: Abandoned Oil and Gas Well Plugging and Site Reclamation in U.S. Fish and Wildlife Service, and National Park Service Areas

Council Members: U.S. Fish and Wildlife Service, and National Park Service

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Executive Summary

U.S. Fish and Wildlife Service (FWS) and National Park Service (NPS) areas have abandoned oil and gas wells and associated features because in most cases: (1) the abandoned features predated the establishment or expansion of FWS and NPS areas; or (2) operators conducting oil and gas operations in FWS and NPS areas abandoned the operations, and FWS and NPS have exhausted regulatory avenues for operators to take necessary corrective actions and the operations have been determined to be abandoned.

The FWS's national responsibility is to work with others to conserve, protect and enhance fish, wildlife, and plants and their habitats for the continuing benefit of the American people. Priorities of the FWS include the National Wildlife Refuge System (over 560 refuges nationwide), Landscape Conservation, Migratory Birds, Threatened and Endangered Species, Aquatic Species, and Connecting People with Nature. The NPS administers an extensive system of national parks, monuments, historic sites, and recreation areas for the enjoyment and education of our citizens, to protect the natural environment of the areas, and to assist States, local governments, and citizen groups in the development of park areas, the protection of the natural environment, and the preservation of historic properties. For both agencies, abandoned oil and gas well plugging and site reclamation is a high priority. Neither agency has an established funding program to correct the hazards and resource impacts associated with abandoned oil and gas operations.

Abandoned oil and gas features include unplugged oil, gas, and water wells and saltwater disposal wells, plugged wells located in waterways that pose navigational hazards, tank batteries and production equipment, pipelines, roads and dredged channels, well and production pads, and other associated developments and equipment. Abandoned oil and gas features pose risks to human safety, environmental risks to surface and subsurface resources, and continued habitat loss, as described below:

- Abandoned oil and gas features could cause surface and subsurface resource damage due to missing or deteriorating pressure control equipment, corrosion and loss of mechanical integrity of unplugged or improperly plugged wellbores, personal injury and property damage from release of pressurized and highly flammable well fluids, and continued loss of habitat from surface disturbances. These risks increase with time as does the cost to address them.
- Park and refuge visitors may be attracted to abandoned oil and gas features, where visitors may come into contact with corroding, unstable structures, open pits, and contaminants.
- Construction of well and production pads and access roads results in soil removal or compaction and vegetation removal, and the introduction and spread of invasive species.
- Canals constructed to access well sites and construct pipelines cause direct and indirect wetland loss, alter surface and ground water hydrology, encourage saltwater intrusion, compact soils, and contribute to the introduction and spread of invasive species.
- Poorly constructed well sites may accelerate erosion and sedimentation, further impacting soils, vegetation, water quality, fish, and wildlife.
- Uncontained oil, drilling muds, wastes, or other contaminants can degrade soils and surface and ground waters, harm vegetation, fish, and wildlife.

- Unplugged wells or improperly cased and cemented wells may lead to release of petroleum products and associated liquids to the surface.
- Surface water circulation may be altered and wetlands may be damaged by construction of roads and pads or threatened by leaks and spills.
- Surface water quality may be degraded by leaks, spills, and stormwater discharges.
- Groundwater quality may be degraded by surface leaks and spills, casing leaks, and poorly plugged wells.
- Scenic quality may be disturbed by wells and production equipment, roads, pads, and miscellaneous equipment.
- Fish and wildlife may be injured by exposure to contaminants, or loss of habitat.
- Abandoned oil and gas wells and sites can increase hazard potential during hurricane season. Storage tanks and other abandoned equipment could be blown over by high winds or tidal surge and release petroleum products that can be transported by flood waters. Barrier islands, shorelines and other coastal areas that are denuded of native vegetation are less effective in blocking tidal surge to dissipate wave energy that provides a major defense for inland areas.

Thirty-nine (39) of the 52 projects in this proposal are ready to implement. Compliance would be completed within 1 day to 6 months before implementing the remaining 13 projects. The FWS and NPS propose to enter cooperative agreements with the State Oil and Gas Divisions to implement the majority of projects, particularly for plugging/re-plugging 39 wells and removing surface equipment/debris at 45 sites. FWS and NPS have worked collaboratively with the States in the past regarding both active and abandoned operations in FWS and NPS areas. FWS and NPS would complete environmental compliance requirements. The States would prepare and award contracts and be the primary points of contact for contract implementation. FWS and NPS would assist in monitoring contractor performance, with emphasis on visitor safety and resource protection. Appendix A, Applicant and Proposal Information Summary Sheet, includes 7% for State Oil and Gas Division staff salary and travel to complete work under the agreements.

Plugging wells could take days to several weeks to complete. Site reclamation could take days to 1 year to complete, with monitoring up to 2 years to ensure revegetation to meet 70% (NPS) to 80% (FWS) cover of native species has been achieved. Timeline to complete projects would range from 1 to 3 years, with one project (reclamation of vehicle tracks in wind tidal flats on 3,038 acres in Padre Island National Seashore (TX)) taking up to 6 years to complete.

The project to reclaim vehicle tracks in wind tidal flats caused by past seismic surveys in Padre Island National Seashore (TX) presents uncertainties or risks. Despite no established and standard method to restore wind tidal flats, the NPS would manage the risk of a large restoration failure by piloting techniques on a small area. To reduce uncertainty, the NPS would assemble an expert team from the park, NPS and US Army Corps of Engineers wetland scientists, a local university professor who has conducted extensive studies on the wind tidal flats, and reclamation specialists, to evaluate alternative restoration practices to develop one or more preliminary restoration methods to test in a small area. Based on the test phase, the team would assist NPS select the method to apply on the remaining vehicle tracks.

Proposal Narrative

1. Proposal Introduction and Background

U.S. Fish and Wildlife Service (FWS), and National Park Service (NPS) areas have abandoned oil and gas wells and associated features for which there is no responsible party. Abandoned oil and gas features are located in FWS and NPS areas because in most cases: (1) the abandoned features pre-dated the establishment or expansion of FWS and NPS areas; or (2) operators conducting oil and gas operations in FWS and NPS areas abandoned the operations, and FWS and NPS have exhausted regulatory avenues for operators to take necessary corrective actions and the operations have been determined to be abandoned. Operators abandon operations for a variety of reasons, but most often, the operators are small “mom-and-pop” ventures with very little capital, and the wells are marginally productive “stripper wells” that may have been profitable when drilled and placed into production, but over the years and through successive transfers of interest, the cost to maintain the wells exceeds the production levels, and the operators abandon. Also, (3) three wells in this proposal, located in Big Thicket National Preserve (TX), had been located on land and properly plugged by the operator decades ago, but due to the natural movements of stream channels, the exposed wellbores are now located within navigable waterways and pose navigational hazards; while two wells in Mandalay NWR (LA) were plugged years ago, but due to marsh subsidence both are now exposed above the mudline and pose navigational hazards.

Neither FWS nor NPS have funding to mitigate the human health and safety hazards posed by abandoned operations; to plug wells; to characterize and remediate spilled hydrocarbons, produced water, and associated liquids; and to restore habitat degraded by the construction of well and production pads, and roads and canals.

The State of Louisiana created the Louisiana Oilfield Site Restoration Program in 1993 to address the growing problem of unrestored orphaned oilfield sites across the State. Revenue for the Program is entirely generated from a fee on oil and gas production in the State of Louisiana. The State of Texas established the Oil Field Clean Up Fund in 1992 to plug orphaned wells and for site remediation and cleanup. The funds are derived from fees, penalties and other payments collected from the oil and gas industry. The State of Texas assisted the NPS in the past by plugging a well and removing surface equipment at Padre Island National Seashore, and the State of Louisiana has plugged multiple wells at Jean Lafitte National Historical Park and Preserve. However, both the State of Louisiana and the State of Texas’ orphaned well funds are very small in comparison to the large number of abandoned wells needing plugging and sites needing reclamation.

There are four general phases of petroleum development. The phases are (1) exploration, (2) drilling, (3) production, and (4) abandonment/reclamation. Surface uses vary for each phase in terms of intensity and duration.

The exploration phase involves seismic surveys that gather subsurface geological information by recording impulses from an artificially generated shock wave typically generated by use of

explosives placed in holes drilled to depths of up to 200 feet. Surface impacts are typically short-term and related to access along source lines to drill shot holes and receiver lines to place geophones. The only project in this proposal related to reclamation due to past seismic exploration is at Padre Island National Seashore (TX). Seismic surveys conducted along the western shoreline resulted in compacted vehicle tracks on wind tidal flats that altered wind-driven inundation by Laguna Madre waters, thus affecting algal growth in these tracks and reducing food for benthic invertebrates. As a result, food supply for migratory birds has been degraded.

To drill a well, an average drilling rig needs a level location of about 3 acres. The drilling pad and access road are constructed to be capable of supporting thousands of tons of equipment. Roads and pads are typically surfaced with material such as gravel, oyster shells, caliche, or ground limestone. The pad would be expanded to drill additional wells to develop an oil or gas field. A water-based well would require dredging of channels/canals to provide access for a specially equipped barge to drill the well. Production operations for water-based wells would typically be located on nearby land with product piped to the facility.

When a well is no longer producing, it is plugged. For wells in the State of Texas, the Railroad Commission of Texas, Oil and Gas Division's plugging standards are applied (Texas Administrative Code, Title 16, Part 1, Chapter 3, Rule 3.14, Plugging). The Railroad Commission of Texas' "Well Plugging Primer, January 2000," is a useful guide (<http://www.rrc.state.tx.us/media/6358/plugprimer1.pdf>). For wells in the State of Louisiana, Statewide Order No. 29-B is applied (Louisiana Administrative Code 43:XIX.313.J). In some cases, the NPS applies the minimum standards of the *Department of the Interior's Onshore Oil and Gas Order Number 2, Section III.G, Drilling Abandonment* for plugging wells in parks. The plugging requirements of the Onshore Order were written specifically for plugging newly drilled wells; however, the NPS has applied the same standards to the permanent abandonment of exhausted producers or service wells. Plugging operations consist of removing the tubing, packer, and other completion equipment; pumping cement across producing zones; and placing cement plugs at various depths to protect freshwater zones. Finally, a cement plug is set at the surface to cap the well, and wellhead equipment is cut off. A permanent abandonment marker is often placed to identify the well's location. There are 39 wells in this proposal needing corrective actions: 26 land-based wells need to be plugged, 1 well is proposed to be converted to a water supply well, and 12 water-based wells that pose navigational hazards are proposed to be cut below the mudline and replugged.

As an example of the wells in this proposal that pose navigational hazards, some wells in Big Thicket National Preserve (TX) had been properly plugged in the 1980's in accordance with State plugging standards, but have become exposed in the main channel of the Neches River. The well casings, once safely on the banks of the Neches, have become exposed due to natural river processes. The wells now pose a serious threat to park visitors and boat traffic, and could be damaged by collision from boats and flood-borne debris and cause further contamination of the river should a boat collide with the well casing and breach below the cement plug to allow the release of fluids into the water. These and other water-based wells require a specially-equipped barge to plug wells in waterways. The well casings would be cut below the mud line

and removed. Where the surface cement plug does not extend below the mud line, the cement plug would be drilled out and reset below the mud line. Two other examples of exposed well casings, previously plugged, occurring in navigable waters is in Mandalay NWR in southeast Louisiana. These two wells were plugged decades ago, and due to marsh subsidence both are now exposed 2 feet above the mudline and pose navigational hazards with documented boating incidents.

Most unplugged wells would be accessed using existing roads. Where roads have naturally reclaimed, or new access would require construction of new roads through areas that would be very difficult to reclaim, access would be by heliportable plugging equipment. Wells would be flushed, the existence of any previous cement plugs would be confirmed, and if needed, the wells would be plugged. Some wells are so old that plugging information is unavailable. Onsite inspection utilizing specialized equipment to “tap” the plug may be required to determine whether additional corrective actions are needed.

Producing oil or gas requires a battery of storage tanks or a pipeline to transport produced oil or gas. Separation and treatment facilities are required to separate gas and water from oil. Storage tanks are required to hold brines produced during oil extraction, and a proper disposal capability, most typically reinjection, must be development.

Flowlines are typically abandoned in place rather than excavated. Flowlines are cut a minimum 3 feet below ground level, flushed and capped. In this proposal, there are 45 sites that require the removal of flowlines, and other debris from abandoned oil and gas sites, including electric power lines, and production storage tanks.

Upon well plugging and abandonment, well and production pads, and access roads or dredged channels are reclaimed. Reclamation involves returning the area to conditions that existed before drilling the well. Steps in the reclamation process include:

- Remove all above ground structures, equipment, and roads/dredged channels used or generated during operations;
- Remove or neutralize any contaminating substances;
- Restore topographic contours of disturbed areas to near original grade;
- Construct plugs or other water control / hydrologic restoration features;
- Spread and prepare natural topsoil for vegetative restoration (importing suitable topsoil that is “clean” of non-native weed seed and plant materials from outside the FWS or NPS areas may be needed);
- Re-establish native vegetative communities based on a planting plan;
- Apply erosion protection measures such as mulching; and
- Monitor vegetation and erosion control efforts. Follow-up treatment of any invasive species that have established in the reclamation site. Reclamation must provide for the safe movement of native wildlife, must re-establish native vegetative communities, the normal flow of surface and reasonable flow of subsurface waters, and must return the area to a condition that does not jeopardize visitor safety or public use of the FWS and NPS areas.

Reclamation projects may last a few days or weeks. Revegetation goals are developed based on pre-operational analysis, or if unavailable, it is based on adjacent, undisturbed areas. Reclamation of abandoned oil and gas sites in FWS and NPS areas would be determined to be successfully achieved when the canopy cover of native vegetation communities is at least 70% on NPS areas and 80% on FWS areas and sustained over at least 2 complete growing seasons. Canopy cover is defined as the vegetative cover above the soil surface that intercepts raindrops but does not contact the soil.

Both the FWS and NPS have well-defined processes to follow to ensure site reclamation is successful and that endemic plant communities are restored to the disturbed areas. For example, the NPS Natural Resource Management Reference Manual #77, Disturbed Lands Restoration (<http://www.nature.nps.gov/rm77/restore.cfm#Intro>), provides guidance for applying a planning process which includes the following 9 steps:

1. Inventory sites and select reference sites or conditions
2. Rank sites
3. Establish goals and objectives
4. Develop preliminary restoration alternatives
5. Undertake compliance and select alternative
6. Develop the project plan
7. Finalize the project plan
8. Implement and oversee the project
9. Reporting activities and results (including monitoring)

In this proposal, there are 52 projects that would result in reclaiming over 6,600 acres. Eleven projects are located in the Gulf Intracoastal Waterway, rivers or canals. Seven projects are located on barrier islands. The majority of the remaining projects are located in wetlands, with high functional fish and wildlife values. Sixteen (16) sites have visual evidence of hydrocarbon staining or waste pits that require characterization and remediation of contaminants. The attached five Tables provide the acres and ecosystem type for each project.

A large-scale project in this proposal involves reclamation of 16.5 miles of canals and their associated spoil deposits in the Barataria Unit of Jean Lafitte National Historical Park and Preserve (LA). These canals were constructed prior to establishment of this NPS unit, and before the imposition of stricter regulatory requirements under the wetland provisions of the Clean Water Act. Reclamation of these canals and their associated spoil banks would restore wetland functions and values including hydrology (water, sediment, and nutrient movement), improve resiliency of ecosystems in the face of subsidence and climate change impacts (sea level rise and intensified tropical storms), and improve visitor experience. Canals would be reclaimed by degrading spoil banks to meet the level of the surrounding wetlands, partially filling the open water of the canals with the degraded soil and vegetative material. The canals would then be allowed to revert to marsh, swamp, and shallow water habitat by natural processes, thereby recreating freshwater wetlands. Degrading spoil banks and dikes would be accomplished from the canals and/or the spoil banks using a marsh buggy, barge-mounted excavator, or similar earth-moving equipment. Access to the sites would be via canals and/or spoil banks. In consideration of habitat restoration/preservation and potential impacts to navigation and recreation, mitigation

techniques would include: 1) installing plugs or check meanders to prevent the dispersal of woody vegetation and sediment from partially filled canals into navigable waterways and impeding navigation or affecting aquatic habitats, 2) placing cut woody vegetation parallel to the banks of canals or chipping in place to prevent large woody debris from drifting into navigable waterways, 3) gapping so spoil banks are intermittently breached to restore hydrological connections between canals and surrounding wetlands, 4) and revegetating with native woody species those areas located adjacent to forested wetlands.

One of the reclamation projects in this proposal is to reclaim vehicle tracks on 3,038 acres of wind tidal flats along the western shoreline at Padre Island National Seashore (TX) that were caused decades ago by oil and gas companies conducting two dimensional seismic surveys. Wind-tidal flats are a very limited and specialized environment that is elevated only a few centimeters above sea level. Wind pushes the Laguna Madre waters to intermittently inundate the tidal flats, providing nutrients to support algal growth which feeds benthic organisms, which in turn are eaten by shorebirds. The vehicle tracks alter surface hydrology, and the resultant loss of healthy algal mats. Wind-tidal flats serve as an important winter and migration foraging habitat for shorebirds, including the federally threatened Piping plover. Padre Island has been designated a *Globally Important Bird Area* by the American Bird Conservancy and a *Site of International Importance* by the Western Hemisphere Shorebird Reserve Network. This reclamation project would restore wind tidal flat habitat. There is no established and standard method to restore this type of wetland. The NPS would manage the risk of a large restoration failure by piloting techniques on a relatively small portion of Padre Island National Seashore. To reduce uncertainty, the NPS would assemble an expert team from the park, NPS and US Army Corps of Engineers wetland scientists, a local university professor who has conducted extensive studies on the wind tidal flats, and reclamation specialists, to evaluate alternative restoration practices to develop one or more preliminary restoration methods to test in a small area. Based on the test phase, the team would assist NPS select the method to apply on the remaining vehicle tracks.

FWS and NPS, and the State Oil and Gas Divisions have established procedures to follow to characterize and remediate hydrocarbons and other contaminants at oil and gas sites. For example, the NPS uses the “Guideline for the Detection and Quantification of Contamination at Oil and Gas Operations (May 2004).” The Railroad Commission of Texas has developed guidance in “Environmental Cleanup Programs” (<http://www.rrc.texas.ov/oil-gas/environmental-cleanup-programs/>), and “Standards for Management of Hazardous Oil and Gas Waste” (Texas Administrative Code, Title 16, Part 1, Chapter 3, Rule 3.98).

While the implementation of the projects in this proposal poses very little risk or uncertainty, and plugging and abandonment of former well sites and reclamation of well pad sites involve relatively small land areas, these abandoned oil and gas sites represent significant sources of petroleum pollution that can impact groundwater, springs and seeps, and surface waters where ground waters enter. The semi-tropical climate of the southeast U.S., with numerous flowing rivers, streams, and ephemeral channels quickly spread those contaminants coming to the surface and all flow into critical estuaries along the coast. This proposal offers full treatment of some of the potentially most damaging abandoned wells found on the federal lands involved. Therefore,

the benefits of the projects in this proposal would have ecological benefits over a large geographical area.

2. Implementation Methodology

The 52 individual projects comprising this proposal present varied degrees of risk to human safety, habitat degradation, and potential for impacting water quality. In general, wells needing plugging or replugging pose the highest risk and resource impacts, followed by sites requiring characterization and remediation of petroleum and other contaminating substances, then removal of abandoned surface equipment, and reclamation of sites to restore and protect habitats and water quality.

Thirty-nine (39) of the 52 projects in this proposal are ready to implement. Field assessments have been conducted, corrective actions have been determined, and environmental compliance has been completed. For the remaining 13 projects, 7 FWS projects and 6 NPS projects have compliance and permit applications in progress or needing to be completed. Four (4) FWS projects need an environmental assessment, Endangered Species Act Section 7 consultation, and National Historic Preservation Act Section 106 consultation to be completed. For 3 projects, FWS has upper Texas Coast Breakwater Permits in process. NPS needs to prepare categorical exclusions for 4 projects, and a memo to files to amend an environmental assessment and Finding of No Significant Impact for 1 project. NPS is awaiting an USACE permit to conduct restoration on experimental plots for 1 project. The timeline to complete these compliance requirements ranges from 1 day to prepare categorical exclusions or a memo to file, up to 6 months to complete an environmental assessment.

This proposal would be implemented following these steps:

Step 1. Many of the projects, particularly for plugging wells (39 wells) and removing surface equipment (45 sites), would be implemented through new Cooperative Agreements between FWS, NPS and State Oil and Gas Divisions. FWS and NPS would enter into Cooperative Agreements with the State Oil and Gas Divisions (Louisiana and Texas). FWS and NPS would each designate an Agreements Technical Representative (ATR) to serve as the point of contact on each Cooperative Agreement. The FWS and NPS ATR's would coordinate project implementation with their respective FWS and NPS areas. Total project cost on Appendix A, Applicant and Proposal Information Summary Sheet, includes 7% for State Oil and Gas Division staff salary and travel to complete work under the Cooperative Agreements.

Some projects would be managed by the FWS and NPS, through contracts. In some cases, FWS and NPS would hire seasonal or term staff to carry out site reclamation projects, or to assist in administering project coordination, providing opportunities for students and veterans to work and gain knowledge and experience in habitat restoration.

The reclamation of vehicle tracks in the wind tidal flats at Padre Island National Seashore (TX) would initially require the development of experimental restoration methods by a team of technical specialists including park staff, NPS and U.S. Army Corps of Engineers wetland

scientists, a University of Texas at Corpus Christi professor who has conducted extensive studies of the wind tidal flats, and reclamation specialists. Application and monitoring of the experimental restoration method(s) would be conducted through an existing Cooperative Education Studies Unit (CESU) agreement between NPS and the University and carried out by graduate and possibly undergraduate students, with oversight of a University Professor. The implementation of the selected restoration method would then be awarded via contract by the NPS or through the Cooperative Agreement by the State Oil and Gas Division.

Through these various implementation methods, greater than 100 jobs are anticipated to be created.

Step 2. FWS and NPS, in collaboration with State Oil and Gas Divisions, would determine the prioritization to implement projects.

Step 3. Based on completed field assessments during which corrective actions have been determined, FWS and NPS would complete environmental compliance for their respective FWS and NPS areas, as needed, and seek review by the State on draft compliance documents in regards to proposed corrective actions and proposed mitigation measures. FWS and NPS would provide final compliance documents to the State. FWS and NPS have completed environmental compliance for most projects. For the nine (9) projects where environmental compliance needs to be completed, there are no anticipated complexities or uncertainties for completing the necessary compliance.

Step 4. Where FWS and NPS have completed environmental compliance, State Oil and Gas Divisions would proceed to develop and award contracts to implement corrective actions. FWS and NPS would participate in the contracting process by providing information, assisting in the development of the contract scopes of work with the State, and reviewing draft contract scopes of work prior to the State issuing for solicitation.

Efficiencies and cost-savings would result from combining multiple projects in as few contracts as possible.

Step 5. State Oil and Gas Divisions would award and administer contracts and serve as the point of contact managing contract implementation in FWS and NPS areas. FWS and NPS would participate in contract monitoring, particularly in regards to avoiding visitor use conflicts and resource impacts. FWS and NPS staff would bring issues of concern to the attention of the State onsite point of contact for resolution.

Please refer to Section 1, Proposal Introduction and Background, for descriptions of well plugging, canal reclamation, and other site reclamation/revegetation processes.

3. Monitoring and Adaptive Management of the Project

FWS and NPS would implement the projects through Cooperative Agreements with State Oil and Gas Divisions. The initial phases for reclamation of vehicle tracks in wind tidal flats at

Padre Island National Seashore (TX) would be conducted via an existing Cooperative Education Studies Unit (CESU) agreement with the University of Texas. Cooperative Agreements would provide one method for tracking project status and budget.

FWS and NPS would also maintain separate tracking systems to track progress in completing projects and monitoring expenditures.

Well plugging would be monitored by a State Oil and Gas Division inspector or qualified contractor to ensure well plugging meets plugging standards. After plugging a well, there would be no further monitoring required.

Monitoring of the experimental reclamation design for reclaiming the vehicle tracks in wind tidal flats at Padre Island National Seashore (TX) would be conducted by graduate and possibly undergraduate students with guidance of a University professor under a scope of work developed by NPS and the University professor, with student participation.

Reclamation of abandoned oil and gas sites would be monitored by the State Oil and Gas Divisions' contract point of contact, with assistance from FWS and NPS staff. Monitoring revegetation would be the primary responsibility of the reclamation contractor, but FWS and NPS would also be monitoring. Revegetation success would be monitored for 2 years following initial reseeding and plantings. Should monitoring show revegetation is not progressing as planned, or that invasive species have been introduced, the FWS and NPS would reassess and apply adaptive revegetation strategies.

Routine conference calls would be held between FWS, NPS and State Oil and Gas Divisions to discuss progress, identify deficiencies and make adjustments as needed. Information sharing regarding seed and plant material sources, mulch sources, and other aspects of the projects would be shared to improve efficiencies and maximize revegetation success.

4. Measures of Success for the Proposed Project

Success for the proposed project would be achieved when the following goals are met:

- Abandoned wells are plugged.
- Abandoned plugged wells posing navigational hazards have been cut below the mudline and replugged as needed.
- Abandoned oil and gas sites have been reclaimed, and revegetation has been achieved with 70% to 80% cover of native species.
- Past vehicle tracks in the wind tidal flats in Padre Island National Seashore (TX) have been restored to restore hydrologic flow that supports algal growth.
- Gulf businesses are provided opportunities to be contracted to conduct field assessments, complete environmental compliance requirements, plug abandoned wells, reclaim sites, and to supply seed and plant materials needed in revegetation.

5. Risks and Uncertainties of the Proposed Activities

The project to reclaim vehicle tracks in wind tidal flats caused by past seismic surveys in Padre Island National Seashore (TX) presents uncertainties or risks. Despite no established and standard method to restore wind tidal flats, the NPS would manage the risk of a large restoration failure by piloting techniques on a relatively small portion of Padre Island National Seashore. To reduce uncertainty, the NPS would assemble an expert team from the park, NPS and US Army Corps of Engineers wetland scientists, a local university professor who has conducted extensive studies on the wind tidal flats, and reclamation specialists, to evaluate alternative restoration practices to develop one or more preliminary restoration methods to test in a small area. Based on the test phase, the team would assist NPS select the method to apply on the remaining vehicle tracks. As proposed, the preliminary experimentation of one or more restoration methods in a small area would limit the risk and uncertainty. If the preliminary experimental phase does not result in a restoration method that can be applied with reasonable certainty to restore hydrologic flow to support algal growth without further impacting the wind tidal flats, the restoration of the larger affected areas would not proceed. Consultations would be ongoing with U.S. Army Corps of Engineers.

Plugging land-based wells, removing surface equipment and debris, and removing imported fill material to construct well pads and roads follow standard procedures, and there is very low risk or uncertainty. Plugging or replugging water-based wells introduces a low risk due to the requirement for access by barge, which increases project complexity due to potential conflicts with other boating traffic; however, standard mitigation would be applied, such as employing navigational warning beacons to let other boating traffic know of slower barge traffic and work occurring in navigable waterways, and stationing shoreline monitors.

Risk and uncertainty associated with successfully re-vegetating sites would be reduced to insignificant levels by: 1) selecting appropriate native seed and plant materials to provide for rapid surface cover, 2) applying appropriate mulching materials to prevent erosion and allow for retaining moisture to facilitate seed germination and growth, 3) planting at the right time of the year when rainfall and temperature provide the most advantageous growing conditions, 4) seeding and planting areas in close timing upon completion of re-contouring and surface preparation, 5) conducting routine monitoring to ensure re-vegetation and 6) taking corrective actions in the event re-vegetation is not occurring at the rate anticipated.

A hurricane or other large storm could jeopardize re-vegetation success, particularly for projects along shorelines; however, risk could be avoided or minimized by scheduling reclamation around hurricane season, or applying mitigation techniques to reduce damage by wave action.

6. Outreach and Education Opportunities

For some projects, FWS and NPS would be completing environmental compliance. For those projects that would require the preparation of an Environmental Assessment as per the requirements of the National Environmental Policy Act of 1969, public scoping would be the first phase of public outreach, followed by a minimum 30-day public review of the EA.

Public outreach would also be achieved by FWS and NPS posting updates on the agencies' public websites, and in visitor centers and entrance stations in FWS and NPS areas where projects are proposed.

During project implementation, particularly near park or refuge visitor use areas, a banner or large sign would be posted notifying visitors that the project is to Restore the Gulf Coast. The banner or sign would adhere to Council design standards.

The initial phase of the project to reclaim vehicle tracks in wind tidal flats at Padre Island National Seashore (TX) would be undertaken with the University of Texas at Corpus Christi, a Cooperative Education Studies Unit, via an existing Cooperative Agreement. The initial phase would enable graduate and possibly undergraduate students to participate in the development of experimental reclamation method(s) and conduct the test phase and monitoring on a small plot. The students could earn credit and learn how to design wetland restoration methods and conduct initial testing on a small plot.

Opportunities for engagement of youth to work on projects and learn about habitat restoration would be through re-vegetation projects where optimal re-vegetation success requires large numbers of trees to be planted by hand over a short time span.

7. Leveraging of Resources and Partnerships

Implementation of many of the projects, particularly for plugging 39 wells and removing surface equipment/debris at 45 sites, is proposed to be undertaken via Cooperative Agreements between the FWS, NPS and State Oil and Gas Divisions. Appendix A, Applicant and Proposal Information Summary Sheet, includes 7% for State Oil and Gas Division staff salary and travel to complete work under the Cooperative Agreements.

The FWS, NPS, and State of Louisiana Oil and Gas Division, and Railroad Commission of Texas share a mutual goal of ensuring that abandoned oil and gas wells are properly plugged, and that wellpads, access roads and associated disturbed areas are restored. The State Oil and Gas Divisions are organized and maintained in their respective States as the designated authority responsible for implementation of a statewide program to regulate oil and gas exploration, development and transportation. In addition, the State Oil and Gas Divisions conduct field inspections by visiting wells and facilities across their respective States to ensure compliance with Statewide oil and gas rules. The State Oil and Gas Divisions also work with the appropriate State agencies to ensure that the water resources of the State are protected from damage by oil and gas field activities.

The initial phases of project design and testing the method to reclaim vehicle tracks in wind tidal flats at Padre Island National Seashore (TX) is proposed to be carried out through an existing Cooperative Education Studies Unit (CESU) agreement between the NPS and the University of Texas (Corpus Christi).

8. Proposal Project Benefits

The 52 projects in this proposal would properly plug 39 wells, of which 12 water-based wellbores would be cut below the mudline and replugged to remove navigational hazards. Over 6,600 acres of habitat would be restored in 19 FWS National Wildlife Refuges and units of the National Park System in Louisiana and Texas. Through the implementation of these projects, more than 100 jobs would be created, with an emphasis towards hiring students and veterans.

While plugging/replugging of wells and reclamation of well sites involve relatively small land areas, they represent significant sources of petroleum pollution that can impact groundwater, springs and seeps, and surface waters where groundwaters enter. The semi-tropical climate of the southeast U.S., with numerous flowing rivers, streams, and ephemeral channels quickly spread those contaminants coming to the surface and all flow into critical estuaries along the coast. This proposal offers full treatment of some of the potentially most damaging abandoned wells found on the federal lands involved. Therefore, the benefits of the projects in this proposal would have ecological benefits over a large geographical area extending beyond the 6,600 acres proposed to be restored.

Council Criteria

1. Comprehensive Plan Goals

The primary goal that this proposal for Abandoned Oil and Gas Well Plugging and Site Reclamation would achieve would be to restore and conserve habitat. Plugging abandoned wells, removing surface equipment, and reclaiming disturbed lands and waters would restore over 6,600 acres of habitat.

Secondary goals would meet all of the remaining RESTORE goals.

Plugging abandoned wells, removing surface equipment, and reclaiming disturbed lands and waters would meet the secondary goals to restore and protect surface and ground water quality, replenish and protect living coastal and marine resources, and enhance community resilience. Abandoned wells and associated equipment and developments affect surface and ground water. Unplugged or improperly plugged wells pose an environmental risk for petroleum products and associated liquids to travel up the wellbore and escape into the environment, thus potentially affecting surface water quality. Unplugged or improperly plugged wells also pose a potential hazard for the migration of petroleum products and associated liquids passing through subsurface formations and contaminating usable ground water zones. Surface facilities, including storage tanks and containment where petroleum products and corrosive chemicals used in well production have been spilled, could hold stormwater, and potentially percolate into ground water or be released to surface waters, and can attract and harm wildlife. Elevated well and production pads and access roads potentially obstruct natural surface water circulation and could prevent normal hydrology for adjacent wetlands. Channel/canal backfilling/spoil bank restoration would create more natural wetland and shallow water habitats, improve conditions for terrestrial and aquatic species, including those of commercial and recreational importance. Channel/canal backfilling/spoil bank restoration at Jean Lafitte National Historical Park would enhance the resiliency of a significant wetland complex that buffers more than 20 miles of the federal levee system protecting Greater New Orleans in an estuary that continues to experience one of the highest rates of land loss in the U.S.

This proposal would also meet the secondary goal to restore and revitalize the Gulf economy. Implementation of the well plugging and surface equipment/debris removal projects listed in this proposal would be carried out through cooperative agreements between FWS, NPS and State Oil and Gas Divisions. Other projects would be carried out by FWS and NPS contracting or hiring seasonal and term positions. For contracts administered by the State Oil and Gas Divisions, FWS or NPS, contractors in the Gulf region would compete for and receive contracts. Seed and plant materials needed in the revegetation of disturbed well sites would be procured from vendors in the Gulf region. FWS and NPS projects that require environmental compliance to be completed would be contracted or completed by hiring seasonal/term staff. It is anticipated that through implementation of these projects greater than 100 jobs would be created, with primary outreach to students, youth, and veterans.

The types of activities included in this proposal include:

- 1) plugging or replugging wells
- 2) removing oil and gas equipment and other debris
- 3) cutting/capping/burying flowlines
- 4) conducting contaminants characterization and remediation
- 5) reclaiming well pads, roads, canals, and other disturbed areas

The largest number of workers would be needed to re-vegetate disturbed areas, particularly where planting by hand is needed. Planting trees in large-scale planting events over 2 or 3 days would lend itself well to youth. Such plantings would need to be done in a limited amount of time to get the best possible restoration outcome.

For projects implemented by FWS and NPS via contracts, preliminary market research would identify where there are Service-disabled Veteran-owned small businesses that would qualify for contract set-asides.

2. Comprehensive Plan Objectives

The primary objective that this proposal for Abandoned Oil and Gas Well Plugging and Site Reclamation would achieve is to restore, enhance, and protect habitats.

Secondarily, all of the remaining objectives would be met: to restore, improve, and protect water resources; protect and restore living coastal and marine resources; restore and enhance natural processes and shorelines; promote community resilience; promote natural resource stewardship and environmental education; and improve science-based decision-making processes. The 52 projects comprising this proposal would result in restoring over 6600 acres of degraded habitat, both on land and in water. Many projects would stabilize shorelines. Plugging 39 wells would protect surface and ground water quality.

This proposal would meet the secondary objective to improve science-based decision-making processes by applying best management practices. Wells would be plugged or replugged using technical standards for plugging wells established in State Oil and Gas Division plugging rules, and BLM's Onshore Oil and Gas Order #2. For contaminants characterization and remediation, and site reclamation, methodologies are well-established. FWS and NPS have a particularly strong understanding of the ecosystems they manage and extensive experience restoring native plant communities. The cost estimates and timelines outlined for the projects in this proposal are based on extensive FWS and NPS knowledge and experience gained in the day to day management of FWS and NPS areas. FWS and NPS also have extensive experience working with oil and gas operators conducting operations under the agencies' respective permitting mechanisms.

The restoration of vehicle tracks in the wind tidal flats in Padre Island National Seashore would be carried out in a methodical, phased approach, utilizing science-based decision-making processes. Initially, a technical team consisting of park staff, NPS and U.S. Army Corps of Engineers wetland scientists, a professor at the University of Texas in Corpus Christi who has conducted extensive study on the wind tidal flats, and reclamation specialists, would develop one

or more experimental restoration designs. After a test phase on a small plot, and through further consultation with the technical team, the NPS would expand the selected reclamation method to the other disturbed areas.

This proposal would meet the secondary objective to promote natural resource stewardship and environmental education. Plugging abandoned wells and reclaiming sites is a high priority in meeting the FWS's mission for improving and maintaining fish and wildlife resources, and the NPS's mission for conserving units of the National Park System unimpaired for the enjoyment of future generations.

In addition to the implementation strategy for the restoration of vehicle tracks at Padre Island National Seashore (TX) that would have an initial experimental design and test phase undertaken via a Cooperative Education Studies Unit (CESU) agreement with the University of Texas at Corpus Christi, implementing the many projects in this proposal is anticipated to create greater than 100 jobs, targeting students and veterans, thus providing environmental education opportunities.

3. RESTORE Act and Comprehensive Plan Priority Criteria

Three priorities would be achieved through implementation of the many projects in this proposal:

Priority 1: Protects that are projected to make the greatest contribution to restoring and protecting the natural resources, ecosystems, fisheries,, marine and wildlife habitats, beaches, and coastal wetlands of the Gulf Coast region, without regard to geographic location within the Gulf Coast region;

Priority 2: Large-scale projects and programs that are projected to substantially contribute to restoring and protecting the natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches, and coastal wetlands of the Gulf Coast ecosystem; and

Priority 4: Projects that restore long-term resiliency of the natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches, and coastal wetlands most impacted by the *Deepwater Horizon* oil spill.

4. Comprehensive Plan Commitments --- A description of how this proposal would achieve all of the commitments in the Comprehensive Plan is provided below.

- a) Science-based Decision Making: See discussion under Item 2, Comprehensive Plan Objectives, above.
- b) Regional Ecosystem-based Approach to Restoration: This proposal includes 52 projects in 16 FWS and 3 NPS areas in the States of Louisiana and Texas, located within the Gulf Coast region. Habitat restoration is based on achieving 70% (NPS) to 80% (FWS) cover with native vegetative species.

- c) **Engagement, Inclusion, and Transparency:** This proposal envisions a collaborative approach between FWS, NPS and State Oil and Gas Divisions to achieve the mutual goal of Abandoned Oil and Gas Well Plugging and Site Reclamation. Many of the projects in this proposal would be implemented through this Cooperative Agreement. The reclamation of vehicle tracks in the wind tidal flats at Padre Island National Seashore (TX) would have an initial design and testing phase that would be implemented through an existing Cooperative Education Studies Unit (CESU) agreement between the NPS and University of Texas at Corpus Christi.
 - d) **Leveraging Resources and Partnerships:** FWS and NPS proposes to implement many of the projects in this proposal through Cooperative Agreements with State Oil and Gas Divisions, and the reclamation of vehicle tracks in wind tidal flats in Padre Island National Seashore (TX) through an existing Cooperative Education Studies Unit (CESU) agreement with the University of Texas at Corpus Christi.
 - e) **Delivering Results and Measuring Impacts:** Results would be immediately achieved upon plugging the abandoned wells by meeting State Oil and Gas plugging standards or the Bureau of Land Management’s Onshore Order No. 2 plugging standards. Results would be achieved in reclaiming sites when 70-80% cover with native vegetation has been attained, when canals are backfilled, and spoilbanks and shorelines are restored.
5. **Best Available Science –** See discussion under Item 2, Comprehensive Plan Objectives, above.
 6. **Environmental Compliance:** Most of the projects in this proposal are ready to implement. Field assessments have been conducted, corrective actions have been determined, and environmental compliance has been completed. For the nine (9) projects where environmental compliance needs to be completed, there are no anticipated complexities or uncertainties for completing the necessary compliance. See the attached Tables; and Associated Appendix B, Environmental Compliance Checklist.
 7. **Location Information:** See the attached five tables that list projects by “Site Number.” The “Site Number” is the same used in the associated Appendix B Environmental Compliance Checklists, and Maps. The tables provide location (latitude/longitude), acres, ecosystem type, timeline for environmental compliance and project implementation, and cost. All of the projects are located within the Gulf Coast region.
 8. **High-Level Budget Narrative:** See the attached tables for a list of projects. Cost estimates are provided for each project.
 9. **Environmental Compliance Checklist (Appendix B):** Appendix B, Environmental Compliance Checklists, is attached.
 10. **Data / Information Sharing Plan:** The FWS and NPS would jointly prepare an accomplishments report to document projects completed each year. The FWS and NPS would jointly prepare a final report within six months of completing the proposal.

11. Reference List of Literature Cited in the Proposal:

Department of the Interior's Onshore Oil and Gas Order Number 2, Section III.G, Drilling Abandonment.

Louisiana Administrative Code 43:XIX.313.J Plugging Standards.

NPS "Guideline for the Detection and Quantification of Contamination at Oil and Gas Operations (May 2004)."

NPS Natural Resource Management Reference Manual #77, Disturbed Lands Restoration (<http://www.nature.nps.gov/rm77/restore.cfm#Intro>).

Railroad Commission of Texas "Environmental Cleanup Programs" (<http://www.rrc.texas.ov/oil-gas/environmental-cleanup-programs/>).

Railroad Commission of Texas "Standards for Management of Hazardous Oil and Gas Waste" (Texas Administrative Code, Title 16, Part 1, Chapter 3, Rule 3.98).

Texas Administrative Code, Title 16, Part 1, Chapter 3, Rule 3.14, Plugging Standards

The Railroad Commission of Texas' "Well Plugging Primer, January 2000," (<http://www.rrc.state.tx.us/media/6358/plugprimer1.pdf>).

12. Other: There is no other narrative.

**NPS AND USFWS
ABANDONED OIL AND GAS WELL PLUGGING AND RECLAMATION**

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
USFWS						
Southwest Louisiana Refuge Complex						
Sabine NWR						
SNWR 1- East Cove Well pad and road, Lutcher Starks #1	Well, Lutcher Stark #1. Well pad and road leveling to marsh level, leveling marsh plus re-vegetation of site. Serial # 53409	Lat: 29.8239 N Long: 93.3040 W Map: FWS LA-1	5 acres	Brackish tidal Marsh	Environmental Compliance: Completed Implementation: 3 years Yr 1: complete reclamation Yrs 2-3: monitoring of revegetation success to attain 80% cover with native species	Environmental Compliance: \$0 Implementation: \$165,000-\$215,000

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
SNWR 2- East Cove 3 Well pad s and road/borrow pit	3 well pads and road/borrow pit. Leveling marsh plus re-vegetation of sites, monitoring. Well serial numbers 73854, 207551, and 56000.	Lat: 29.8246 N Long: 93.2087 W Map: FWS LA-1	14 acres	Brackish tidal Marsh	Environmental Compliance: Completed Implementation: 3 years Yr 1: complete reclamation Yrs 2-3: monitoring of revegetation success to attain 80% cover with native species	Environmental Compliance: \$0 Implementation: \$165,000-\$215,000
SNWR 3- 2 Well pads and road/borrow pit	2 well pads and road/borrow pit. Leveling marsh plus re-vegetation of sites, monitoring. Well serial numbers; 164525 and 171414	Lat: 29.8229 N Long: 93.2072 W Map: FWS LA-1	3 acres	Brackish tidal Marsh	Environmental Compliance: Completed Implementation: 3 years Yr 1: complete reclamation Yrs 2-3: monitoring of revegetation success to attain 80% cover with native species	Environmental Compliance: \$0 Implementation: \$165,000-\$215,000

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
<p>Southwest Louisiana Refuge Complex Continued:</p> <p>Cameron Prairie NWR</p> <p>CPNWR 1- Degrade pit and restore to natural elevation, replant area</p>	<p>Well- Herbert Helms Sweetlake #1. Pit not closed or gapped. Will require testing and remedialtion.</p>	<p>Lat: 29.9404 N Long: 93.0904 W Map: FWS LA-2</p>	<p>1 acre</p>	<p>Fresh water Marsh</p>	<p>Environmental Compliance: Completed</p> <p>Implementation: 3 years Yr 1: complete reclamation Yrs 2-3: monitoring of revegetation success to attain 80% cover with native species</p>	<p>Environmental Compliance: \$0</p> <p>Implementation: \$80,000</p>

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost	
Southwest Louisiana Refuge Complex Continued: Lacassine NWR	LNWR 1 – removal of exposed piping and valve	Well- Lacassine Company #1. Exposed pipes and valve left in place Well Serial # 70641	Lat: 29.9828 N Long: 92.8914 W Map: FWS LA-3	1 acre	Impounded fresh water marsh	Environmental Compliance: Completed Implementation: 1 year	Environmental Compliance: \$0 Implementation: \$30,000 Depends if casing is above/below mudline and if well is under pressure, potential cost \$500,000
	LNWR 2 – removal of exposed piping	Well- Lacassine Refuge #2; 2.5” pipe emerging from water with exposed casing under the water, not buried. Well Serial #129014	Lat: 29.9639 N Long: 92.8920 W Map: FWS LA-3	3 acres	Impounded fresh water marsh	Environmental Compliance: Completed Implementation: 1 year	Environmental Compliance: \$0 Implementation: \$110,000 Depends if casing is under pressure,

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
						could be upwards of \$500,000
Southeast Louisiana Refuge Complex						
Bayou Teche NWR						
BTNWR 1- Abandoned Storage Tanks	Removal/disposal of production tanks on old pad site off Stinson Road	Lat: 29.7795 N Long: 91.4548 W Map: FWS LA - 4	N/A	Bottomland Hardwood Forest	Environmental Compliance: Completed Implementation: 1 year	Environmental Compliance: \$0 Implementation: \$32,500
BTNWR 2- Abandoned Flowlines	Removal & disposal of abandoned flowlines/piping adjacent to nature trail	Lat: 29.7546 N Long: 91.4869 W Map: FWS LA - 4	N/A	Bottomland Hardwood Forest	Environmental Compliance: Completed Implementation: 1 year	Environmental Compliance: \$0 Implementation: \$32,500

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
BTNWR 3- Well pad site restoration	Well Pad Restoration and Monitoring -North Bend West Unit	Lat: 29.7038 N Long: 91.4763 W Map: FWS LA – 4	0.8 acres	Bottomland Hardwood Forest	Environmental Compliance: Completed Implementation: 3 years Yr 1: complete reclamation Yrs 2-3: monitoring of revegetation success to attain 80% cover with native species	Environmental Compliance: \$0 Implementation: \$65,000
BTNWR 4- Well pad site restoration	Well Pad Restoration and Monitoring - Centerville Unit #1	Lat: 29.7823 N Long: 91.4596 W Map: FWS LA – 4	0.5 acres	Bottomland Hardwood Forest	Environmental Compliance: Completed Implementation: 3 years Yr 1: complete reclamation Yrs 2-3: monitoring of revegetation success to attain 80% cover with native species	Environmental Compliance: \$0 Implementation: \$40,000

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
BTNWR 5- Well pad site restoration	Well Pad Restoration and Monitoring - Centerville Unit #2	Lat: 29.7795 N Long: 91.4548 W Map: FWS LA – 4	0.25 acres	Bottomland Hardwood Forest	Environmental Compliance: Completed Implementation: 3 years Yr 1: complete reclamation Yrs 2-3: monitoring of revegetation success to attain 80% cover with native species	Environmental Compliance: \$0 Implementation: \$18,000
BTNWR 6- Well pad site restoration	Well Pad Restoration and Monitoring - Centerville Unit #3	Lat: 29.7797 N Long: 91.4423 W Map: FWS LA – 4	0.97 acres	Bottomland Hardwood Forest	Environmental Compliance: Completed Implementation: 3 years Yr 1: complete reclamation Yrs 2-3: monitoring of revegetation success to attain	Environmental Compliance: \$0 Implementation: \$65,000

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
					80% cover with native species	
Southeast Louisiana Refuge Complex continued:						
Mandalay NWR						
MNWR 1- Well plugging Lake Hatch Southdown #1	Well plugged, due to subsidence well is 3 feet above mudline, safety hazard, recorded incidents	Lat: 29.5147 N Long: 90.8038 W Map: FWS LA – 5	0.5 acres	Freshwater Marsh	Environmental Compliance: completed Implementation: 1 year	Environmental Compliance: \$0 Implementation: \$165,000
MNWR 2- Well plugging GIWW access Southdown Sugars #4	Well plugged, due to subsidence well is 3 feet above mudline, safety hazard, recorded incidents	Lat: 29.5339 N Long: 90.8094 W Map: FWS LA – 5	0.02 acres	Freshwater Marsh –open water off GIWW	Environmental Compliance: completed Implementation: 1 year	Environmental Compliance: \$0 Implementation: \$110,000

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
<p>Southeast Louisiana Refuge Complex continued:</p> <p>Big Branch Marsh NWR</p> <p>BBMNWR 1- Well pad site restoration</p>	<p>Well Pad Restoration, soil testing, and Monitoring –Boy Scout Road</p>	<p>Lat: 30.2820 N Long: 89.9253 W Map: FWS LA – 6</p>	<p>4.3 acres</p>	<p>Wet Pine Savannah - Flats</p>	<p>Environmental Compliance: Completed</p> <p>Implementation: 3 years</p> <p>Yr 1: complete reclamation Yrs 2-3: monitoring of revegetation success to attain 80% cover with native species</p>	<p>Environmental Compliance: \$0</p> <p>Implementation: \$110,000</p>

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
BBMNWR 2- Orphaned well Paquet #1 plugging and pad site restoration	Well plugging and pad restoration, soil testing, and monitoring- Paquet Road orphaned well	Lat: 30.2809 N Long: 89.9022 W Map: FWS LA – 6	0.1 acres	Wet Pine Savannah – Flats	Environmental Compliance: Completed Implementation: 3 years Yr 1: complete plugging and reclamation Yrs 2-3: monitoring of revegetation success to attain 80% cover with native species	Environmental Compliance: \$0 Implementation: \$165,000
BBMNWR 3- Pipeline/Location canal marsh restoration- East pipeline	Marsh restoration, erosion caused by breach in spoil bank along canal, plant native marsh grass in degraded areas, monitoring	Lat: 30.2618 N Long: 89.9059 W Map: FWS LA – 6	37 acres	Brackish Tidal Marsh – Spartina	Environmental Compliance: Completed Implementation: 3 years Yr 1: complete planting and reclamation Yrs 2-3: monitoring of revegetation	Environmental Compliance: \$0 Implementation: \$220,000

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
BBMNWR 4- Degrade pit and restore to natural elevation, replant area	Degrade remnant pit associated with plugged well off Transmitter Road, soil testing, monitoring	Lat: 30.2828 N Long: 89.8969 W Map: FWS LA – 6	0.13 acres	Wet Pine Savannah – flats, open water pit	<p>success to attain 80% cover with native species</p> <p>Environmental Compliance: Completed</p> <p>Implementation: 3 years</p> <p>Yr 1: complete planting and reclamation Yrs 2-3: monitoring of revegetation success to attain 80% cover with native species</p>	<p>Environmental Compliance: \$0</p> <p>Implementation: \$48,000</p>

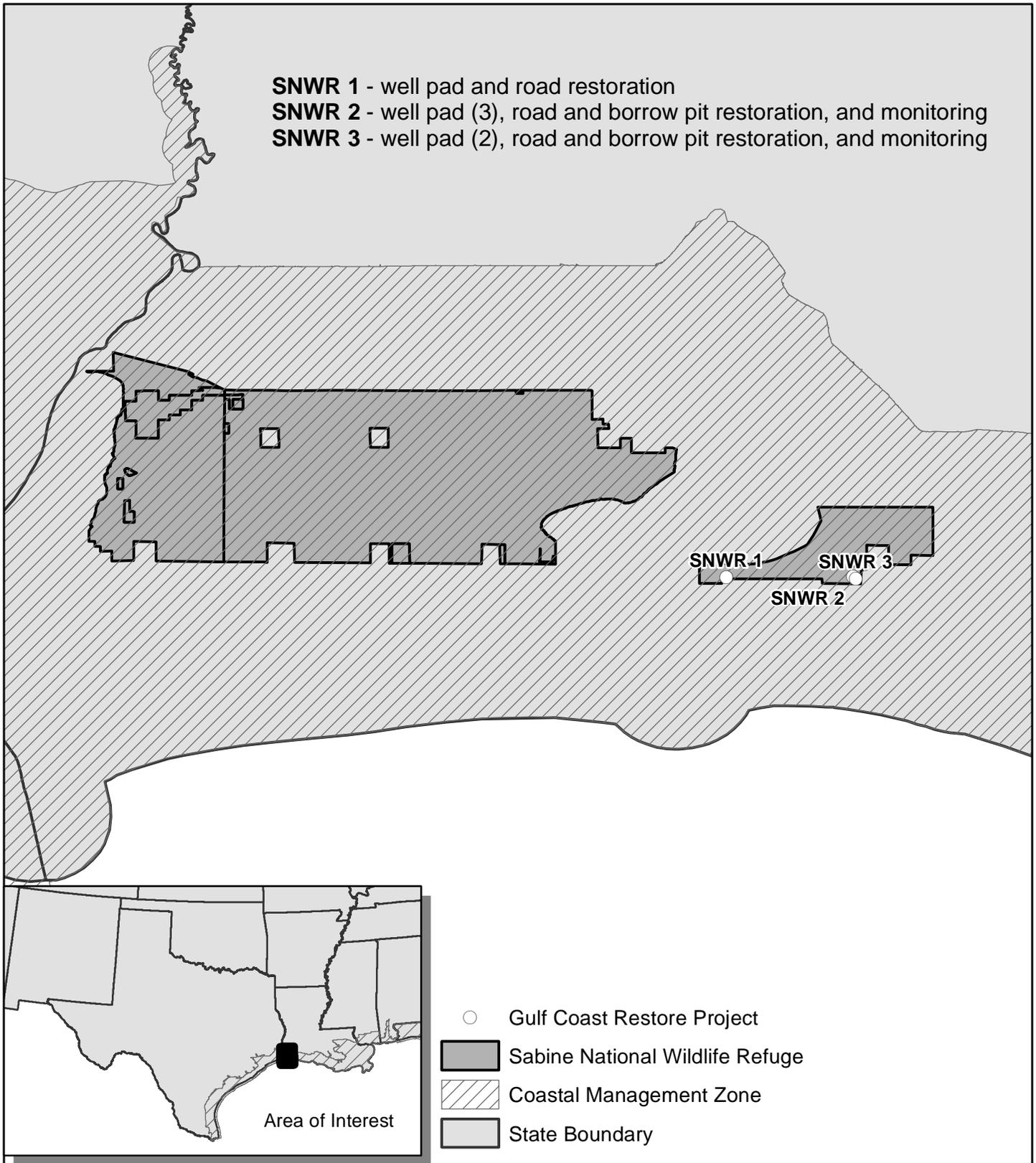
Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
Southeast Louisiana Refuge Complex continued:						
Delta NWR						
DNWR 1- removal of oil and gas related tanks/vessels abandoned	Remove abandoned tanks/storage vessels remaining on refuge from previous hurricanes – public safety and aesthetics	Lat: 29.2393 N Long: 89.1813 W Map: FWS LA – 7	N/A	Fresh marsh – riverine delta	Environmental Compliance: Completed Implementation: 1 year	Environmental Compliance: \$0 Implementation: \$55,000
DNWR 2- removal of oil and gas related tanks/vessels abandoned	Remove abandoned tanks/storage vessels remaining on refuge from previous hurricanes – public safety and aesthetics	Lat: 29.2096 N Long: 89.1981 W Map: FWS LA – 7	N/A	Fresh marsh – riverine delta	Environmental Compliance: Completed Implementation: 1 year	Environmental Compliance: \$0 Implementation: \$65,000

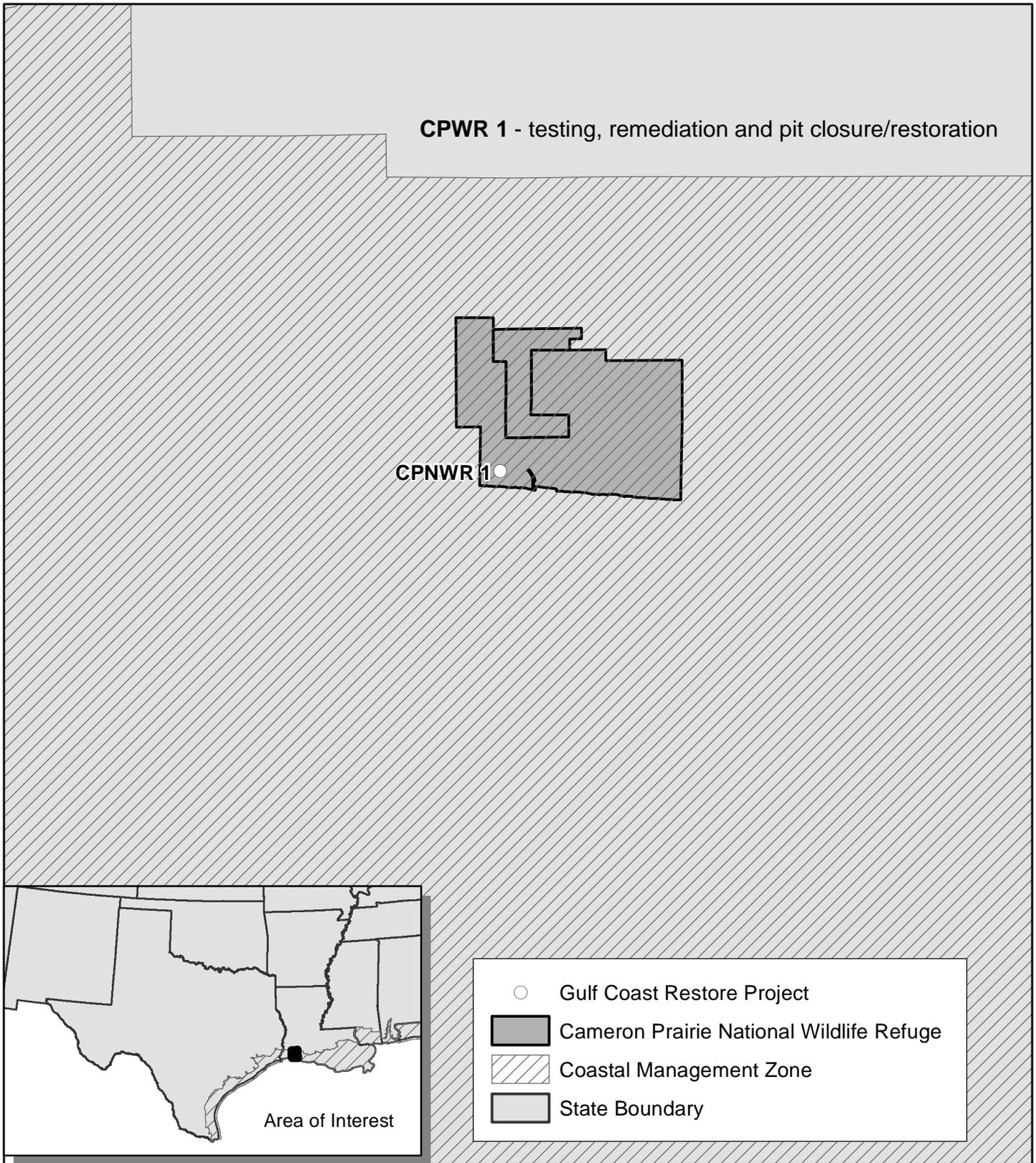


SNWR 1 - well pad and road restoration

SNWR 2 - well pad (3), road and borrow pit restoration, and monitoring

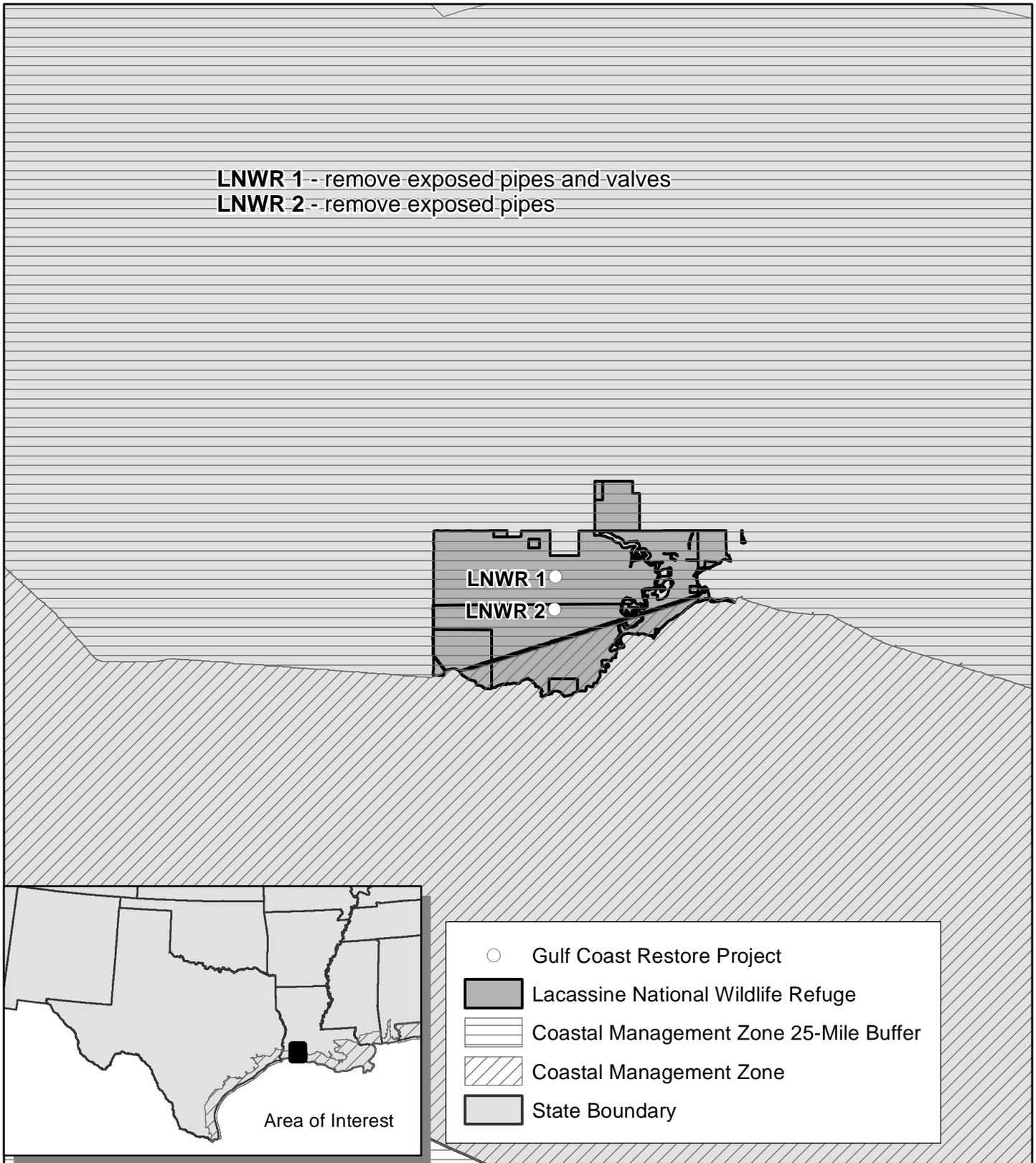
SNWR 3 - well pad (2), road and borrow pit restoration, and monitoring

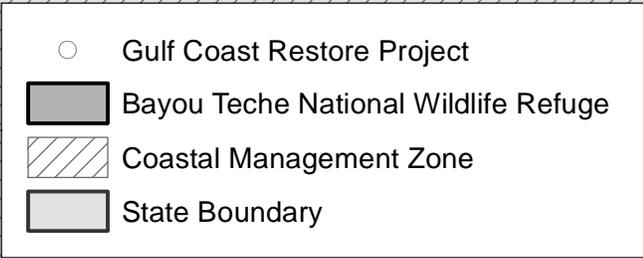
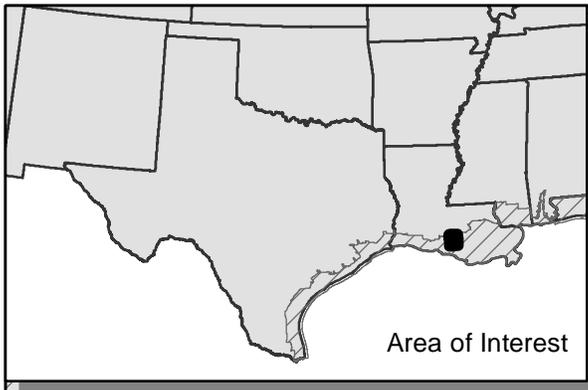




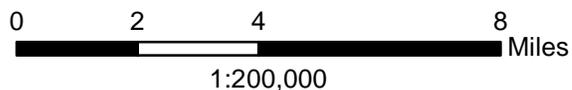
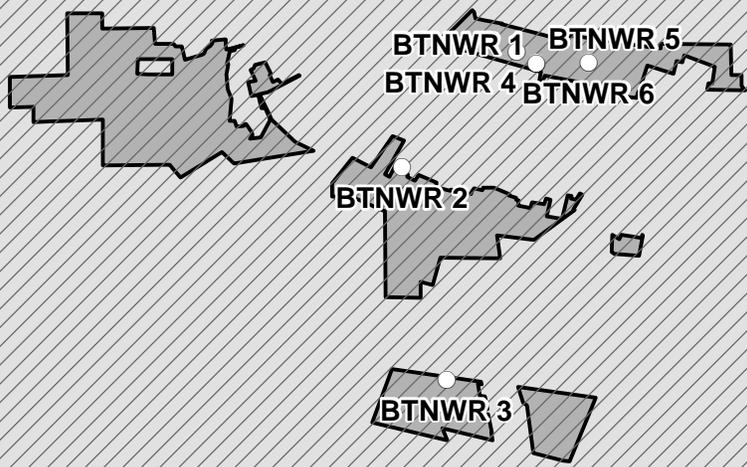


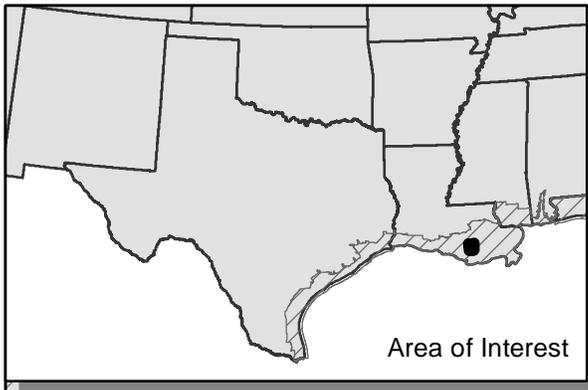
LNWR 1 - remove exposed pipes and valves
LNWR 2 - remove exposed pipes



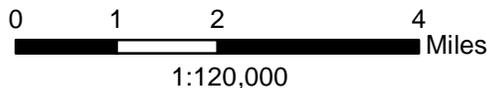
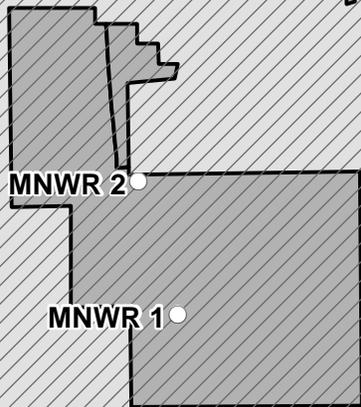


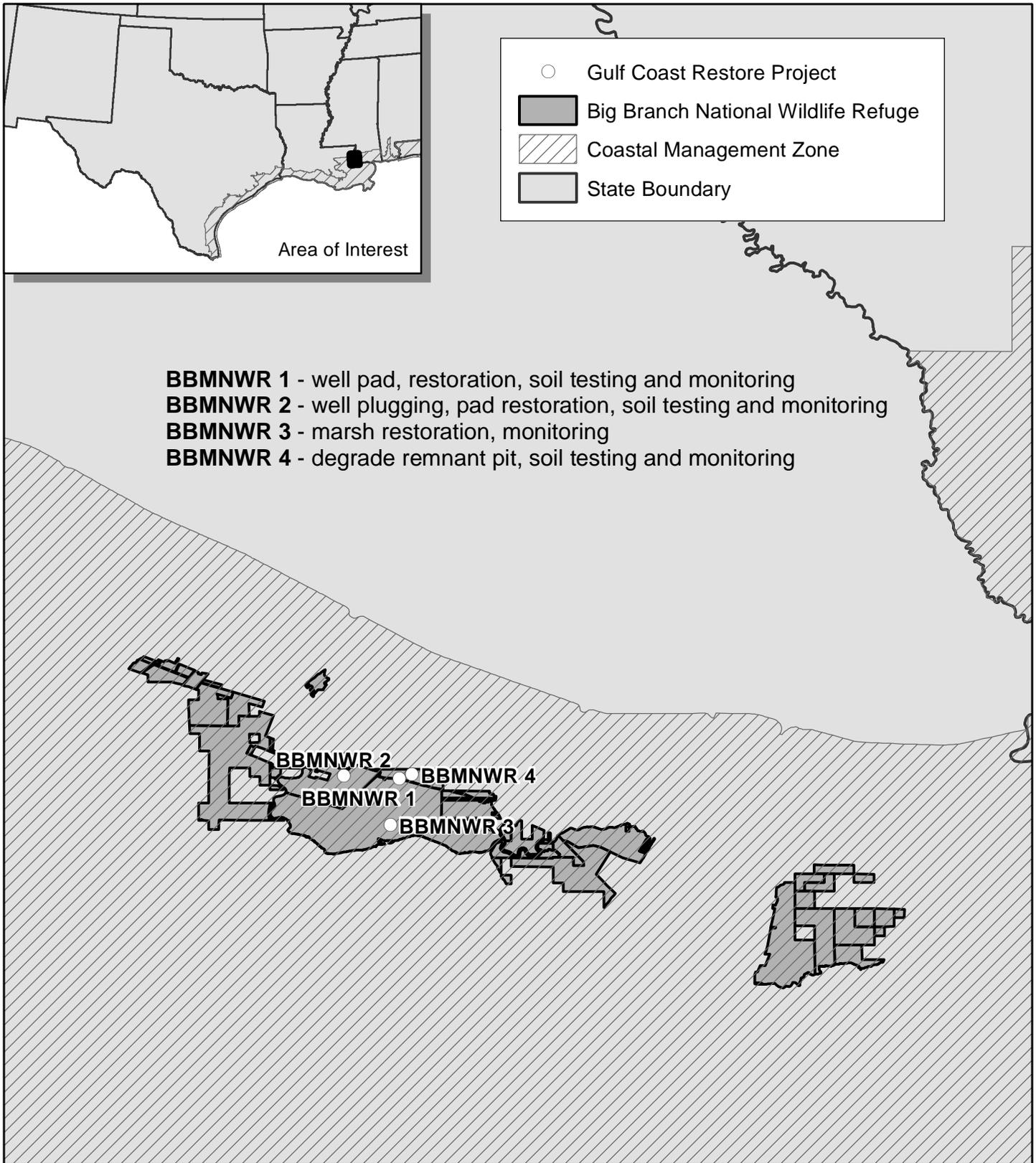
- BTNWR 1** - removal/disposal of production tanks on old pad site off Stinson road
- BTNWR 2** - removal/disposal of abandoned flowlines/pipping adjacent to nature trail
- BTNWR 3** - well pad restoration and monitoring
- BTNWR 4** - well pad restoration and monitoring
- BTNWR 5** - well pad restoration and monitoring
- BTNWR 6** - well pad restoration and monitoring





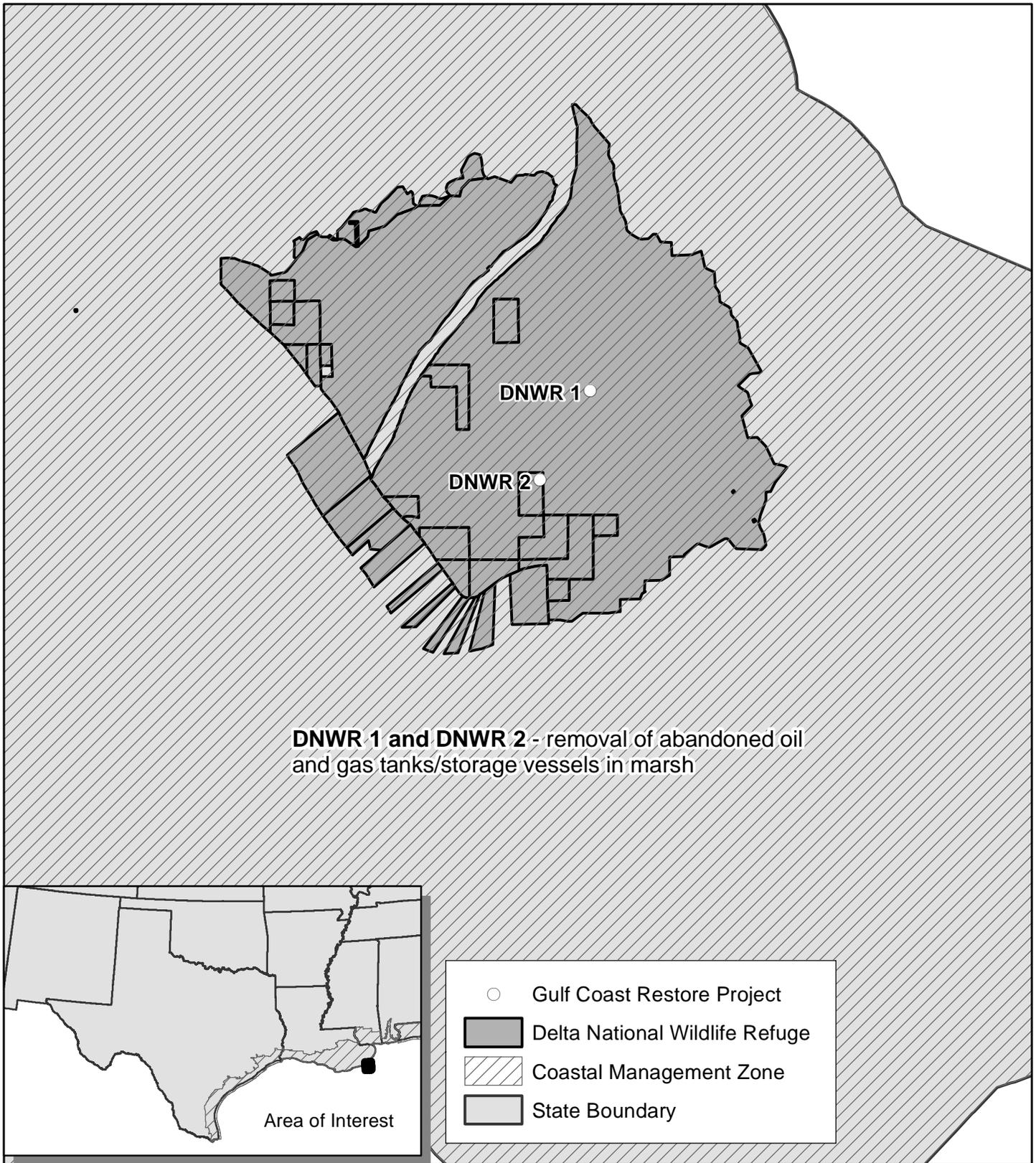
MNWR 1 - well plugged, 3 feet above mudline due to subsidence, safety hazard, recorded incidents
MNWR 2 - well plugged, 3 feet above mudline due to subsidence, safety hazard, recorded incidents





BBMNWR 1 - well pad, restoration, soil testing and monitoring
BBMNWR 2 - well plugging, pad restoration, soil testing and monitoring
BBMNWR 3 - marsh restoration, monitoring
BBMNWR 4 - degrade remnant pit, soil testing and monitoring





Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **SNWR 1**
Map: **FWS LA-1**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council
Environmental Compliance Checklist

Project: **SNWR 2**
Map: **FWS LA-1**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **SNWR 3**
Map: **FWS LA-1**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **CPNWR 1**
Map: **FWS LA-2**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **LNWR 1**
Map: **FWS LA-3**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **LNWR 2**
Map: **FWS LA-3**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters ofPermission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **BTNWR 1**
Map: **FWS LA-4**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council
Environmental Compliance Checklist

Project: **BTNWR 2**
Map: **FWS LA-4**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **BTNWR 3**
Map: **FWS LA-4**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **BTNWR 4**
Map: **FWS LA-4**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council
Environmental Compliance Checklist

Project: **BTNWR 5**
Map: **FWS LA-4**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council
Environmental Compliance Checklist

Project: **BTNWR 6**
Map: **FWS LA-4**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **MNWR 1**
Map: **FWS LA-5**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **MNWR 2**
Map: **FWS LA-5**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **BBMNWR 1**
Map: **FWS LA-6**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **BBMNWR 2**
Map: **FWS LA-6**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **BBMNWR 3**
Map: **FWS LA-6**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **BBMNWR 4**
Map: **FWS LA-6**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council
Environmental Compliance Checklist

Project: **DNWR 1**
Map: **FWS LA-7**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Project: **DNWR 2**
Map: **FWS LA-7**

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	x			
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section106- Consultation and Plarming ACHP, SI-IPO(s), and/or THPO(s)				
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				

Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

**NPS AND USFWS
ABANDONED OIL AND GAS WELL PLUGGING AND RECLAMATION**

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
South Texas Refuge Complex Lower Rio Grande Valley NWR LRGVNWR 1 LRGV Boca Chica: Brady Unit #1 Pinnacle Operating Company Cameron Co. TX	Abandoned drilling site needs caliche road, drilling pad, and equipment. Site has undergone P&A. Reclamation needed completed. Company unresponsive.	Access Rd (start) Lat: 25.9551N Long:-97.31497W Elevation: 17' ----- Access Rd (end) Lat: 25.96027N Long:-97.3128W Elevation: 7' Map: FWS TX - 1	0.5	Salt grassland prairie. Barriccia flats. Playa. Ephemeral rainfall-driven wetland.	Environmental Compliance: NEPA completed. Implementation: 3 year Yr 1: complete reclamation Yrs 2-3: monitoring of revegetation success to attain 80% cover with native species	Environmental Compliance: \$0 Implementation: \$100,000
South Texas Refuge Complex Laguna Atascosa NWR LAATNWR 1 Laguna Atascosa NWR Padre Island: Well #1 and Well #2 Cameron Co. TX	Two wells are currently present that have been abandoned without proper P&A. The sites need reclamation and revegetation.	Access: From South Padre Island (north) Lat: 26.3111N Long: -97.2176W Elevation: 2' Map FWS TX - 2	2.0	Barrier Island habitat. Salt grass prairie Tidal flats Algal mats Playa.	Environmental Compliance: Needs completed Implementation: 3 year Yr 1: complete reclamation Yrs 2-3: monitoring of revegetation	Environmental Compliance: \$5,000 Implementation: \$160,000

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
					success to attain 80% cover with native species	
South Texas Refuge Complex Lower Rio Grande Valley NWR LRGVNWR 2 LRGV Teniente: Southern Gas marketing Company. La Sal Vieja Gathering System. Gas Transmission Line/Facility.	Pipeline Facility needs removed and below-ground 8.6'' pipeline needs properly closed.	Access: From HW186 to Kenaf Road (west). Lat: 26.5118N Long: -97.92615W Elevation: 43' Map: FWS TX - 1	0.2	Tamaulipan Thornscrub and pothole (seasonal wetland) region	Environmental Compliance: Completed Implementation: 3 year Yr 1: complete reclamation Yrs 2-3: monitoring of revegetation success to attain 80% cover with native species	Environmental Compliance: \$0 Implementation: \$100,000
South Texas Refuge Complex Lower Rio Grande Valley NWR LRGVNWR 3 LRGV Teniente: RISCO Operations. Well #4 RR Willacy Co. TX	Abandoned site that needs to be plugged. Potential well to be converted into a water well for refuge use. Some infrastructure still on location	Lat: 26.5126N Long: -97.8921W Map: FWS TX - 1	1.0	Tamaulipan Thornscrub and pothole (seasonal wetland) region	Environmental Compliance: Completed Implementation: 3 year Yr 1: complete reclamation Yrs 2-3: monitoring of revegetation success to attain	Environmental Compliance: \$0 Implementation: \$100,000

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
					80% cover with native species	
Aransas/Matagorda Island Complex Matagorda Island Unit MIUNWR 1 FWS Matagorda Island Unit- Calhoun County. Operators: Matagorda Resources Co. Davis Gulf Coast, Inc. 1 possibly 2 unknown operators	Matagorda Island has 6 to 7 abandoned oil & gas sites including production pads, access roads, flow lines and tank batteries (2), 4-5 sites require well plugging, all sites need reclamation, and debris removal; 2 production facilities (tank batteries) need a characterization of contaminants. All sites lie within 1 mile of the Gulf. Companies	Old Pad/2 Wells Lat: 28.113175 N Long: -96.819108 W Abd Well 1 Lat: 28.117377N Long: -96.802039W Tank Battery 1 Lat: 28.1974 Long: -96.6985 Old Well Site 2 Lat: 28.274 Long: -96.593 Well Site/Tank Battery 2 Lat: 28.28986	5.0 ac total approx..	Barrier Island habitat. Salt grass prairie Tidal flats	Environmental Compliance: Completed Implementation: 3 years Year 1 plug & abandon wells, remove debris, tank batteries, and initiate reclamation. Year 2 & 3 monitoring of revegetation success to attain 80% cover with native species	Environmental Compliance: \$50,000.00 Implementation: \$775,000

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
from distant past All MI sites are high priority for FWS.	generally unwilling to incur costs or unresponsive.	Long: -96.53422 Old Well Site 3 Lat: 28.289 Long: -96.53061 SWD Well Lat: 28.28607 Long: -96.54162 Map: FWS TX - 3				
Aransas/Matagorda Island Complex Aransas NWR ARNWR 1 FWS Aransas Unit- Aransas County.	Aransas has numerous flow line/risers through the unit that need to be removed and sites reclaimed. Electric power line sites that need complete removal (2) and relocation (3)	Blackjack Peninsula Lat: 28.304748 N Long: -96.818336 W Location not approximate at this time Map: FWS TX - 4			Environmental Compliance: Completed Implementation: 3 years Yr 1: complete removal or flow line/risers & power lines. Relocation of 3 lines. Initiate reclamation Yrs 2 & 3: monitoring of revegetation success to attain 80% cover with native species	Environmental Compliance: Implementation: \$300,000.00

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
<p>Texas Midcoast Refuge Complex</p> <p>Big Boggy NWR</p> <p>BBNWR 1</p> <p>USFWS- Texas Mid-Coast National Wildlife Refuge shoreline protection alongside 6.5 linear miles of the Gulf Coast Intercoastal Waterway. Breakwaters along these 6.5 linear miles of shoreline will protect highly subsided salt marsh habitat associated with long-term oil and gas well activity (21 wells).e Complex.</p>	<p>Big Boggy NWR</p> <p>Install 1.4 miles of breakwaters along GIWW Boggy Creek and Pelton Lake where previous oil and gas activities has increased subsidence in the marsh at Big Boggy</p>	<p>Big Boggy NWR:</p> <p>Lat: 28.739661N Long: -95.8194W</p> <p>Map: FWS TX-5</p>	<p>517 ac</p> <p>1,032 ac</p> <p>1,406 ac</p>	<p>Intermediate Salt marsh</p>	<p>An upper Texas Coast Breakwater Permit application has been submitted by DU and USFWS</p>	<p>1.4 million dollars</p>

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
Texas Midcoast Refuge Complex San Bernard NWR SBNWR 1- Break water installation due to subsidence from O&G activity	Installation .6 miles of GIWW shoreline between the 2013 project and the south end of the refuge where an active gas field near the GIWW has caused subsidence and saltwater intrusion.	San Bernard NWR: Lat: 28.7758N Long: -95.60997W Map: FWS TX-6	1,032 ac	Intermediate Salt marsh	An upper Texas Coast Breakwater Permit application has been submitted by DU and USFWS	\$600,000
Texas Midcoast Refuge Complex Brazoria NWR BRNWR 1 – Break water installation due to subsidence from O&G activity	Installation of 4.5 miles of breakwaters between Essex Bayou and Nicks Lake along the GIWW where salt water intrusion due to subsidence has degraded the Slop Bowl due to long- time oil and gas production facilities.	Brazoria NWR: Lat: 28.9984N Long: -95.25315W Map: FWS TX-7	1,406 ac	Intermediate Salt marsh	An upper Texas Coast Breakwater Permit application has been submitted by DU and USFWS	4.5 million dollars
Texas Midcoast Refuge Complex San Bernard NWR SBNWR 2	Abandoned waste pits from historic drilling activity.	Lat: 28.78220 Long: -95.60092 Lat: 28.77665 Long: -95.60959	7 (estimated)	Salt marsh, Saline prairie	Environmental Compliance: Not completed Implementation: 3 years	Estimate \$400,000.

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
San Bernard NWR – Sargent Unit has 7 abandoned waste pits.		<p>Lat: 28.7772 Long: -95.611583</p> <p>Lat: 28.78053 Long: -95.614536</p> <p>Lat: 28.77864 Long: -95.6001</p> <p>Lat: 28.77431 Long: -95.6150</p> <p>Lat: 28.78288 Long: -95.606586</p> <p>Map: FWS TX - 6</p>			<p>Yr 1: complete characterization of contaminants and reclamation</p> <p>Yrs 2-3: monitoring of revegetation success to attain 80% cover with native species</p>	
<p>Texas Midcoast Refuge Complex</p> <p>San Bernard NWR</p> <p>SBNWR 3</p> <p>San Bernard NWR – Buffalo Creek Unit has abandoned raised concrete foundations and pads from historic oil production.</p>	Abandoned raised concrete foundations and pads, miscellaneous abandoned equipment from historic oil production.	<p>Lat: 29.2855 Long: -95.8812</p> <p>Lat: 29.2867 Long: -95.8811</p> <p>Lat: 29.2871 Long: -95.8815</p> <p>Lat: 29.2881 Long: -95.8812</p> <p>Lat: 29.2880 Long: -95.8818</p>	50 (estimated)	Riparian forested.	<p>Environmental Compliance: Not completed</p> <p>Implementation: 3 years</p> <p>Yr 1: complete characterization of contaminants and reclamation</p> <p>Yrs 2-3: monitoring of revegetation success to attain</p>	Estimate \$250,000.

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
		<p>Lat: 29.28906 Long: -95.8818</p> <p>Lat: 29.29185 Long: -95.88217 Map: FWS TX - 6</p>			80% cover with native species	
<p>Texas Chenier Plain Refuge Complex</p> <p>Anahuac NWR</p> <p>ANNWR 1</p> <p>NWR-Anahuac Roberts Mueller Unit (RMU)</p> <p>RMU has 27 abandoned oil and gas concrete jack bases and debris to be removed; All occurring within the 25 miles Coastal Zone Boundary. Acceptable degree of disturbance of each removal site to be</p>	Abandoned concrete pump jack bases remain at old oil well pads.	<p>#1 29°33'58.93"N 94°25'46.65"W concrete base API07102219</p> <p>#2 29°34'4.21"N 94°25'40.95"W API07102218 concrete base</p> <p>#3 29°34'4.90"N 94°25'33.38"W API07102216</p> <p>#4 29°34'10.61"N 94°25'30.35"W API07102212</p> <p>#5 29°34'28.48"N 94°25'26.49"W API ?</p> <p>#6 29°34'34.43"N 94°25'34.62"W API ?</p>	Approx. 0.0016	Wetlands Intermediate Marsh	<p>Environmental Compliance: Completed</p> <p>Implementation: 2 year 1 year to complete</p>	<p>Environmental Compliance: \$0</p> <p>Implementation: \$810,000.00 to 1,404,000.00</p>

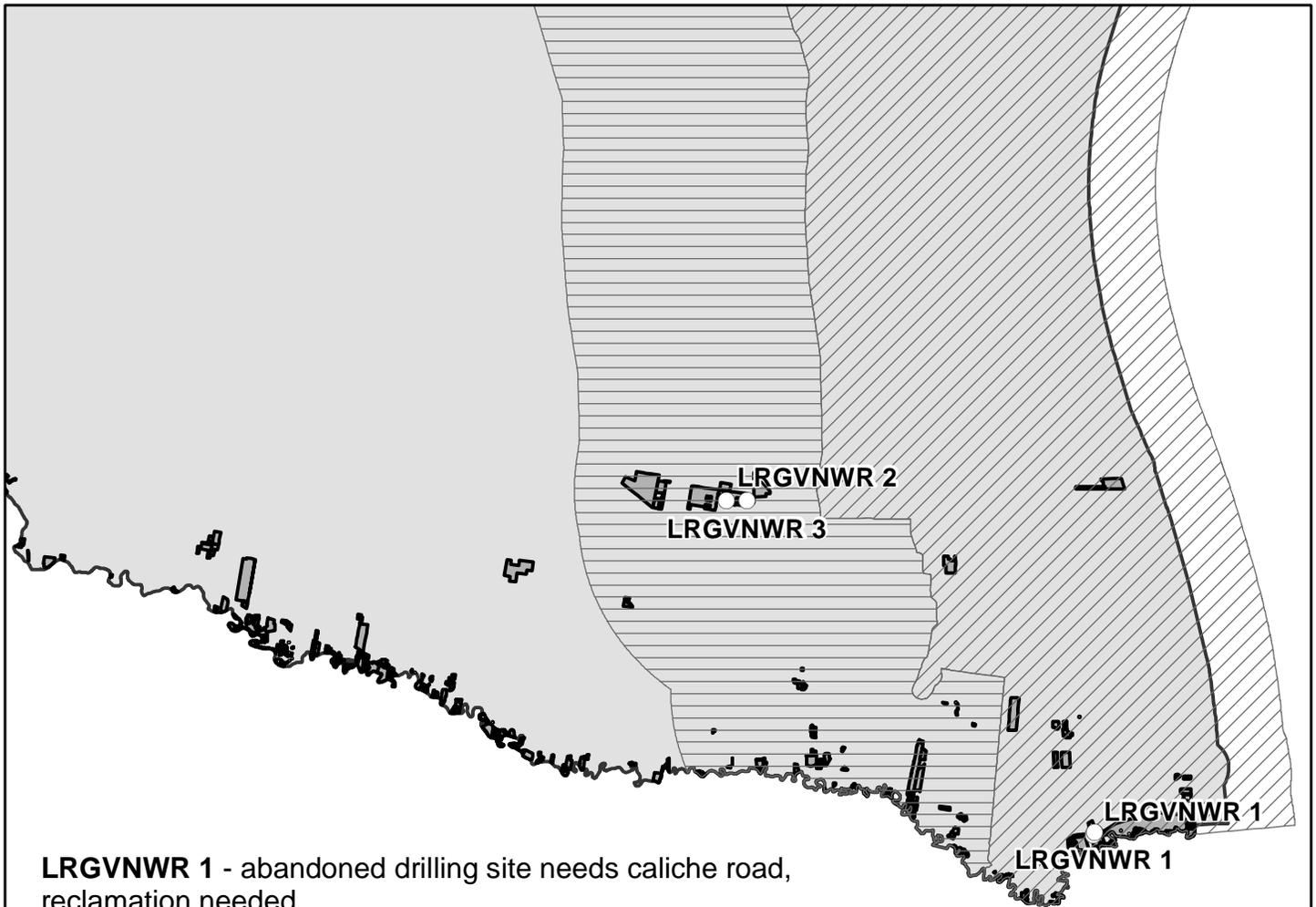
Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
<p>evaluated individually and prioritized for removal or adapted into landscape.</p> <p>27 sites ranging from \$30,000 to \$52,000 – Refuge needs to prepare prioritization list</p>		#7 29°34'50.28"N 94°25'42.79"W API 07102228				
		#8 29°34'48.80"N 94°25'43.93"W				
		#9 29°34'52.38"N 94°25'50.89"W				
		#10 29°34'54.27"N 94°25'52.00"W				
		#11 29°34'11.71"N 94°25'52.42"W				
		#12 29°34'16.10"N 94°25'43.30"W				
		#13 29°34'44.99"N 94°25'51.34"W				
		#14 29°34'39.63"N 94°25'59.59"W				
		#15 29°34'37.13"N 94°25'58.79"W				
		#16 29°34'16.92"N 94°25'34.44"W				
		#17 29°34'32.93"N 94°25'51.60"W				
		#18 29°34'26.50"N 94°25'52.33"W				
		#19 29°34'26.37"N				

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
		94°25'43.78"W #20 29°34'21.02"N 94°25'52.52"W #21 29°34'16.63"N 94°25'27.66"W #22 29°34'24.48"N 94°25'10.18"W #23 29°34'11.98"N 94°25'6.91"W #24 29°34'23.62"N 94°24'45.52"W #25 29°34'28.47"N 94°24'46.99"W #26 29°34'28.12"N 94°24'49.52"W #26 29°34'28.12"N 94°24'49.52"W #27 29°34'26.58"N 94°24'52.26"W Map: FWS TX - 8				

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
<p>Texas Chenier Plain Refuge Complex</p> <p>Anahuac/McFaddin NWR</p> <p>ANMFNWR 1</p> <p>NWR-Anahuac Roberts Mueller Unit (RMU) & McFaddin NWR</p> <p>Areas occurring within the 25 miles Coastal Zone Boundary. 11.75 miles of electric lines associated with oil and gas production; Suitable lines to be upgraded to have Bird</p>	<p>There are currently approximately 1.25 miles of electric lines running through the refuge to supply oil and gas operations on Anahuac NWR Roberts Mueller Unit and approximately 10.5 miles on running through McFaddin NWR for Oil and Gas operational purposes</p>	<p>Anahuac NWR RMU – 1.25 miles Map: FWS TX – 8</p> <p>McFaddin NWR – 10.5miles Map: FWS TX-- 9</p>	<p>Approx.. 11.75 linear miles</p>	<p>Wetlands Intermediate and fresh water marshes Partial uplands</p>	<p>Environmental Compliance: \$0</p> <p>Implementation: 2yr</p> <p>Yr 1 and 2: Removal and upgrading of lines</p>	<p>Environmental Compliance: \$0</p> <p>Implementation: \$470000</p>

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
<p>Excluding Devices. Equipped as appropriate Approximately \$40,000.00 per linear mile</p>						
<p>Texas Chenier Plain Refuge Complex McFaddin NWR MFNWR 1 Areas occur within the 25 miles Coastal Zone Boundary. Breakwater shoring along the Gulf Intracoastal Waterway(GIWW) to stabilize current established oil and gas field road Approximately 900,000.00 per mile.</p>	<p>Approximately 3-miles of Refuge shore need breakwater protection prevent further erosion from GIWW wave action. Law grants mineral owners ingress and egress access. Stabilization from Intracoastal erosion would protect current roads to avoid further habitat loss, by limiting impacts to the current parameters.</p>	<p>Map: FWS TX - 9</p>	<p>Approx. 3 miles</p>	<p>Approx. 3 miles</p>	<p>Implementation: 3 year 1 year to complete Yrs 2-3 monitoring for bank stabilization</p>	<p>Environmental Compliance: \$0 Implementation: \$2,700,000.00</p>

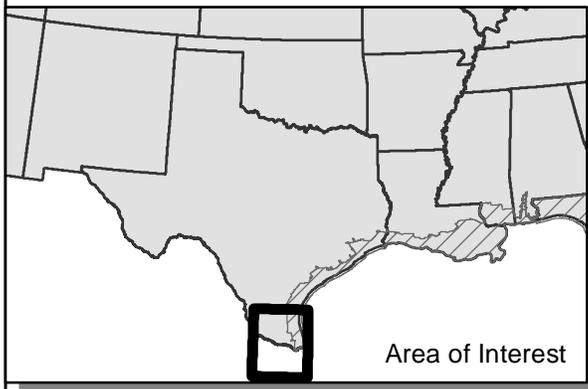
Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
<p>Texas Chenier Plain Refuge Complex</p> <p>McFaddin NWR</p> <p>MFNWR 2</p> <p>McFaddin NWR possibly has 1 abandoned oil and gas site occurring within the 25 miles Coastal Zone Boundary. Well status requires verification to ownership; if established to be an abandoned well plugging, site reclamation, and debris removal</p>	<p>Oil and gas well is located in deep marsh habitat with no current access route</p>	<p>Lat: 29.717119N Long: -94.11049W hidden in the phragmites</p> <p>Map: FWS TX - 9</p>	<p>1</p>	<p>Wetlands Freshwater marsh</p>	<p>Implementation: 1 year 2 months to complete</p>	<p>Environmental Compliance: \$26,000</p> <p>Implementation: \$360,000</p>



LRGVNWR 1 - abandoned drilling site needs caliche road, reclamation needed.

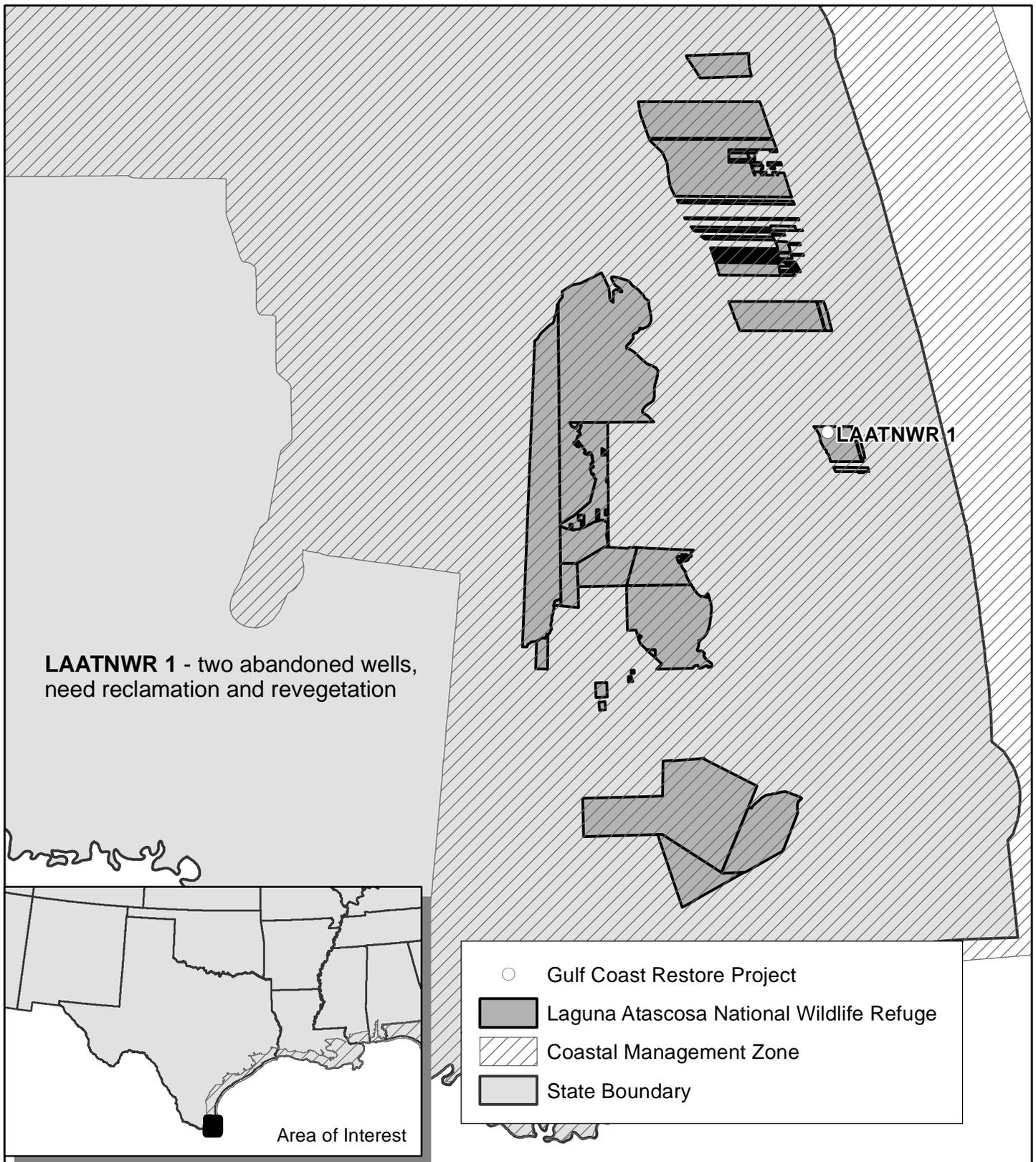
LRGVNWR 2 - pipeline needs removed and be properly closed

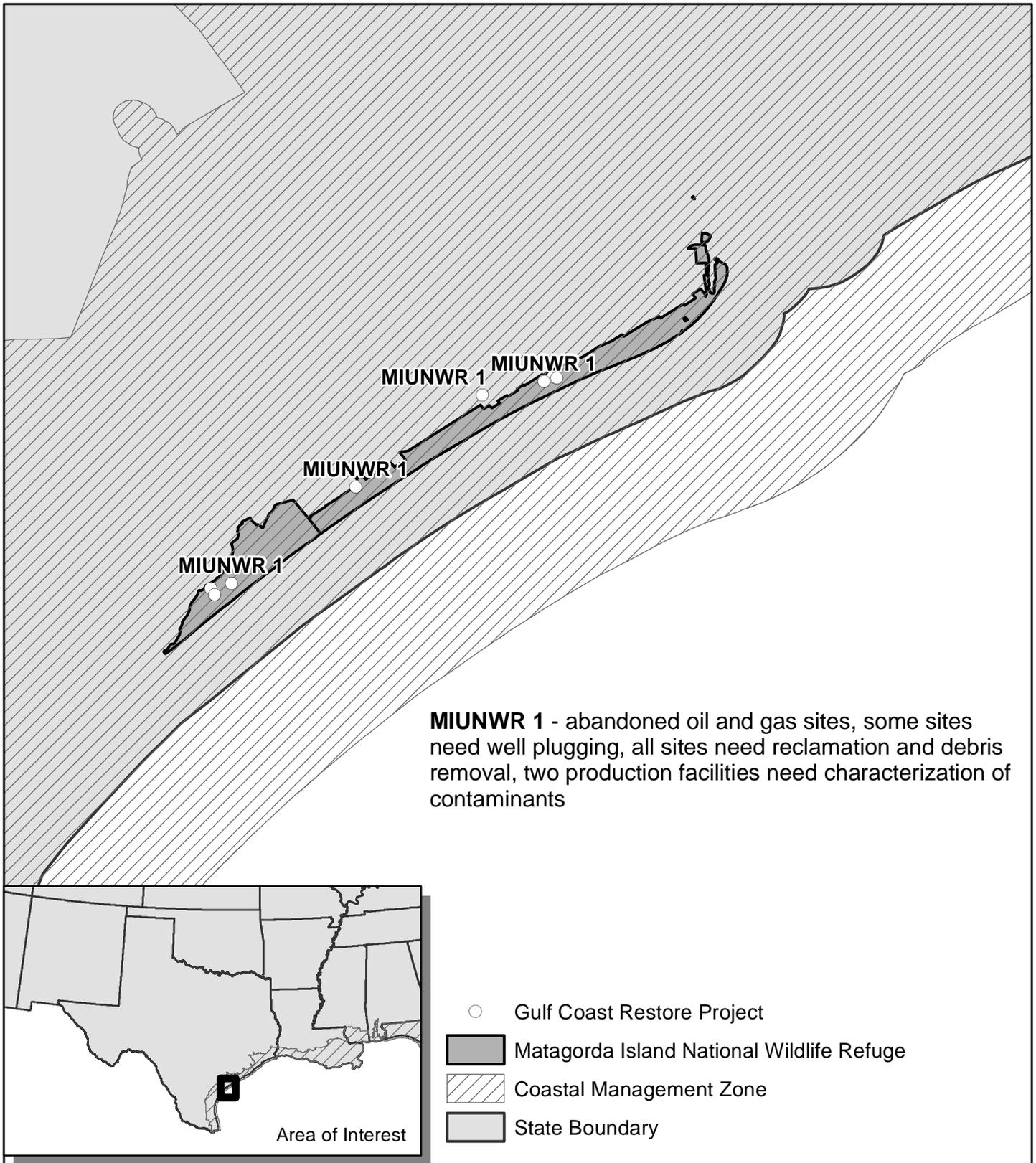
LRGVNWR 3 - abandoned site that needs to be plugged, potential well to be converted into water well for refuge use

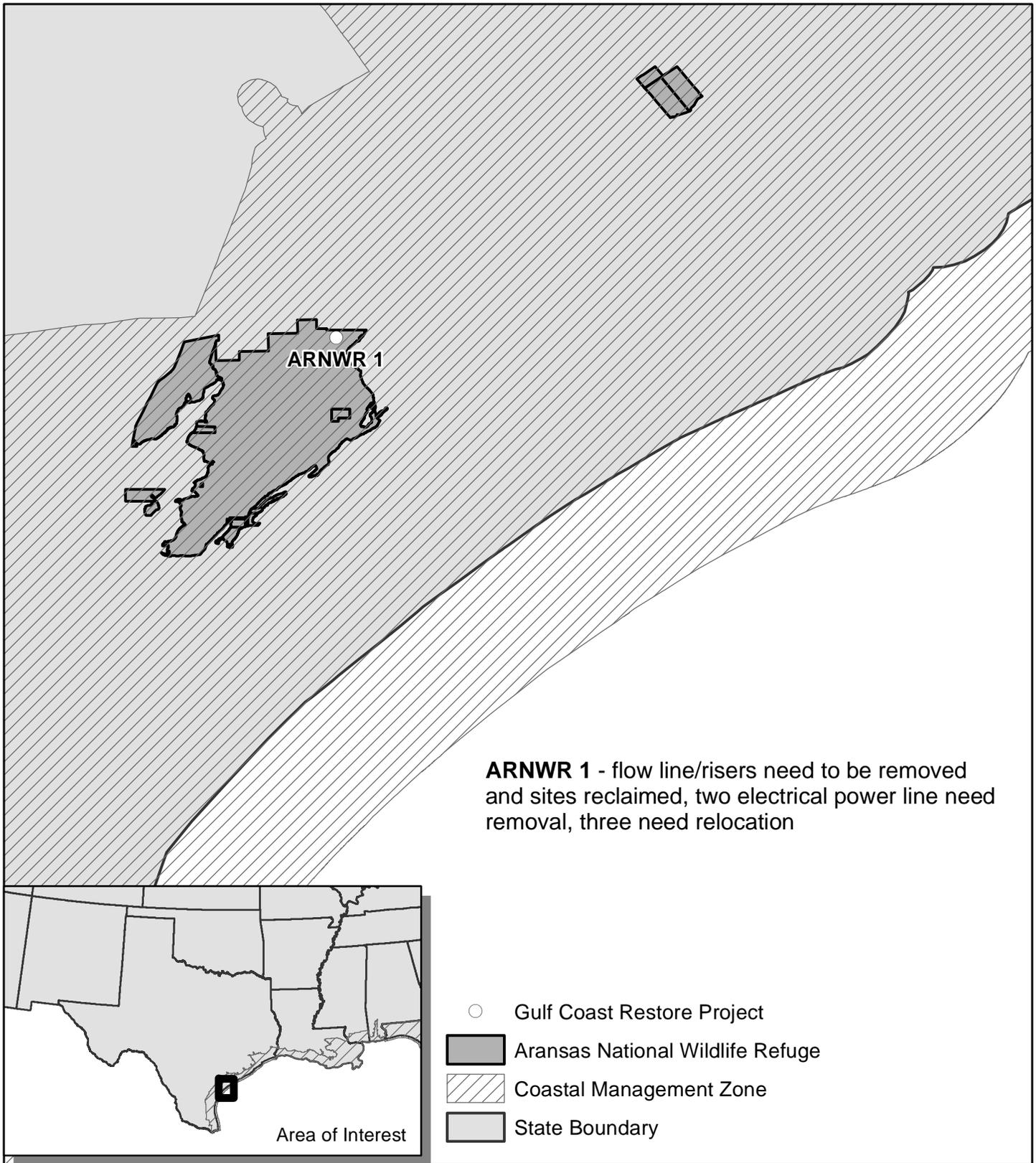


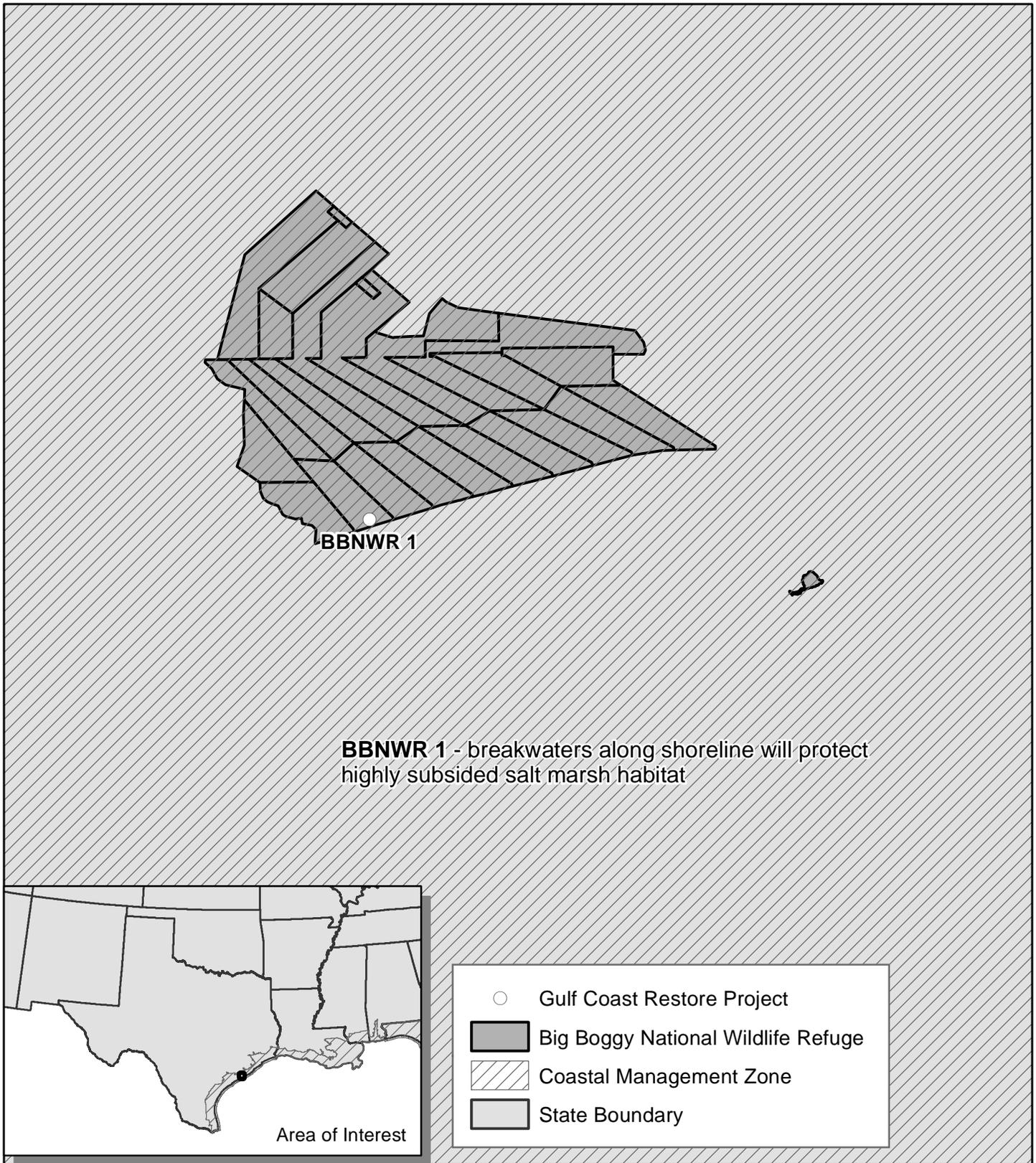
- Gulf Coast Restore Project
- Lower Rio Grande National Wildlife Refuge
- ▨ Coastal Management Zone 25-Mile Buffer
- ▩ Coastal Management Zone
- State Boundary





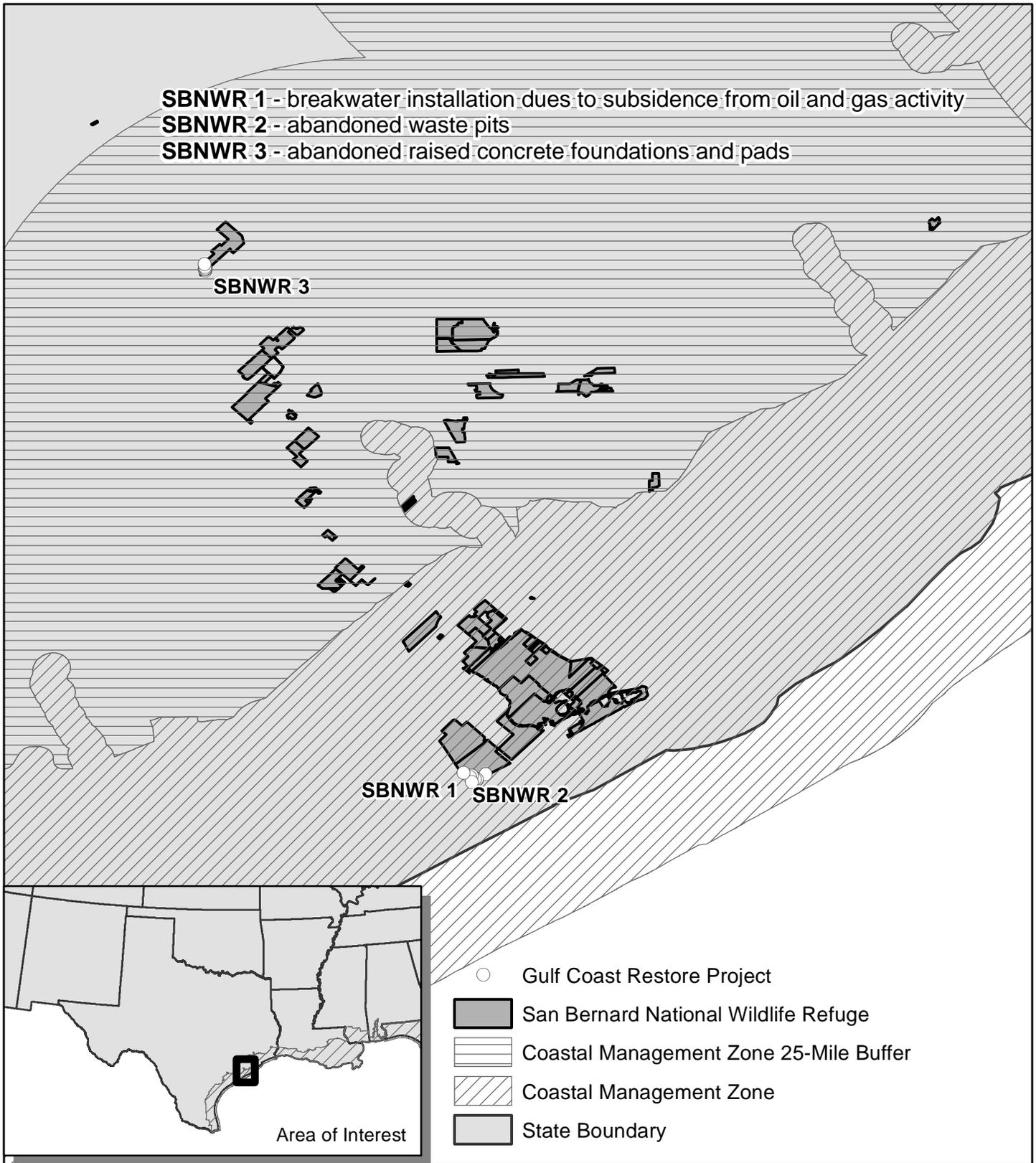






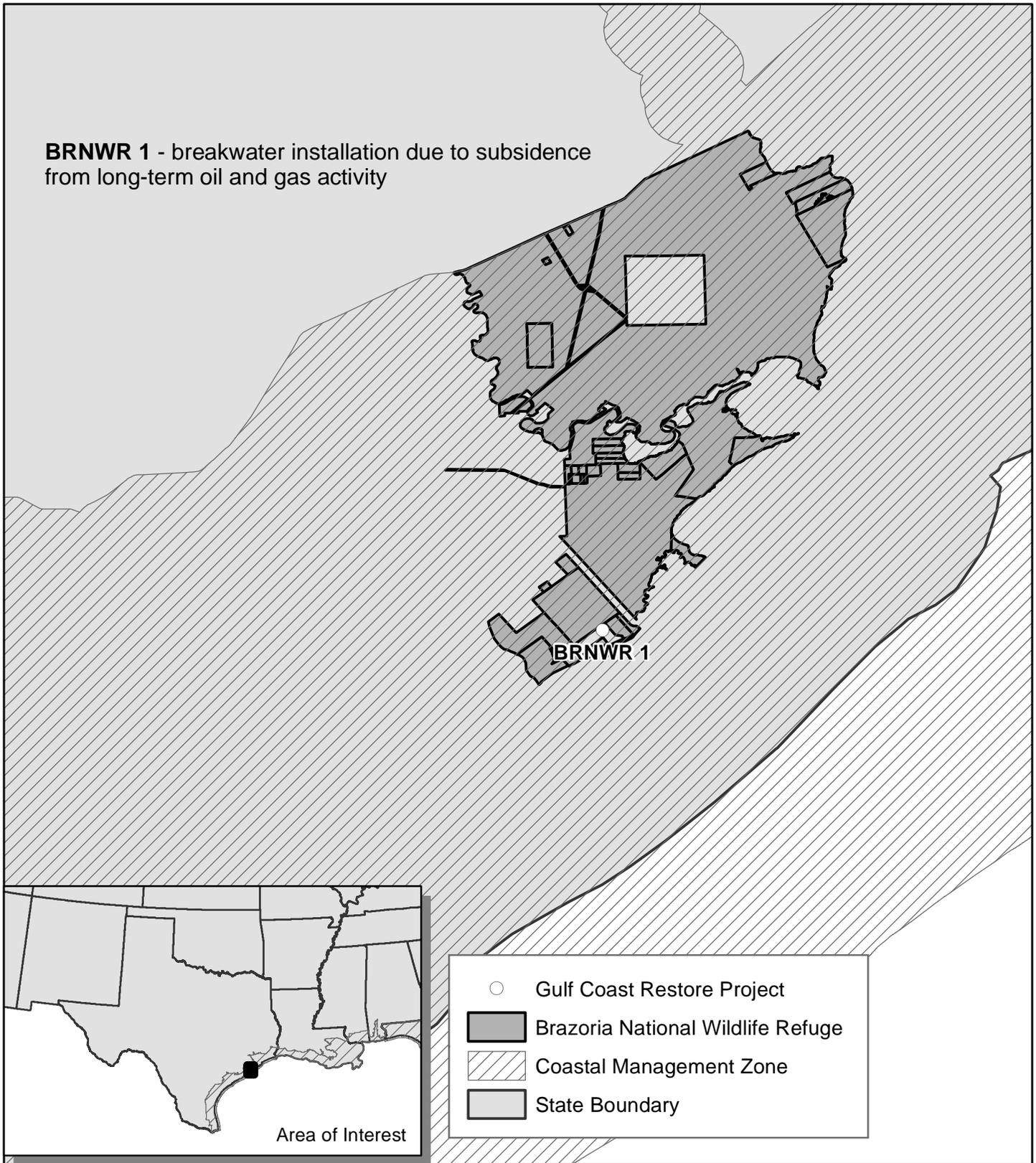


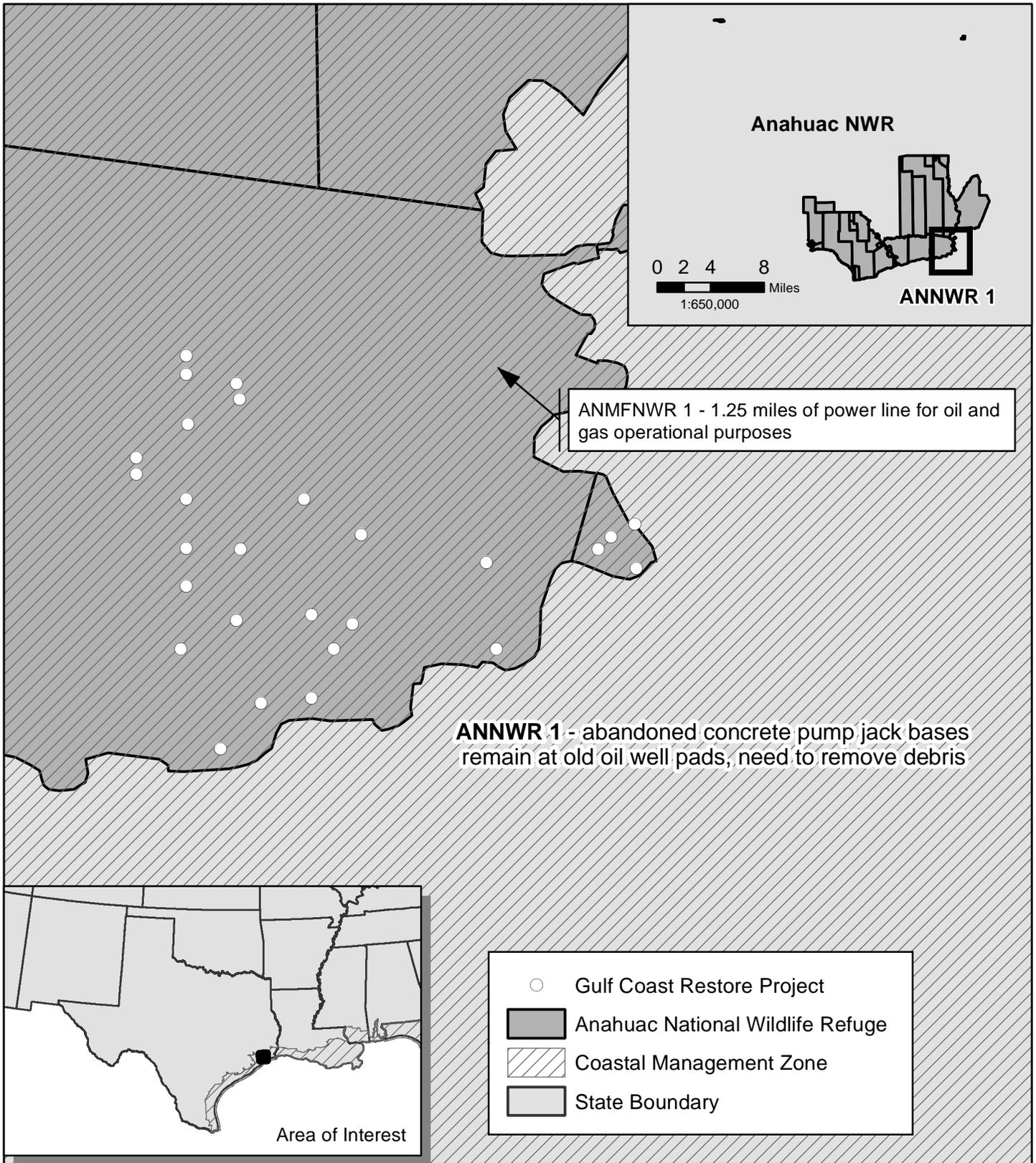
SBNWR 1 - breakwater installation due to subsidence from oil and gas activity
SBNWR 2 - abandoned waste pits
SBNWR 3 - abandoned raised concrete foundations and pads

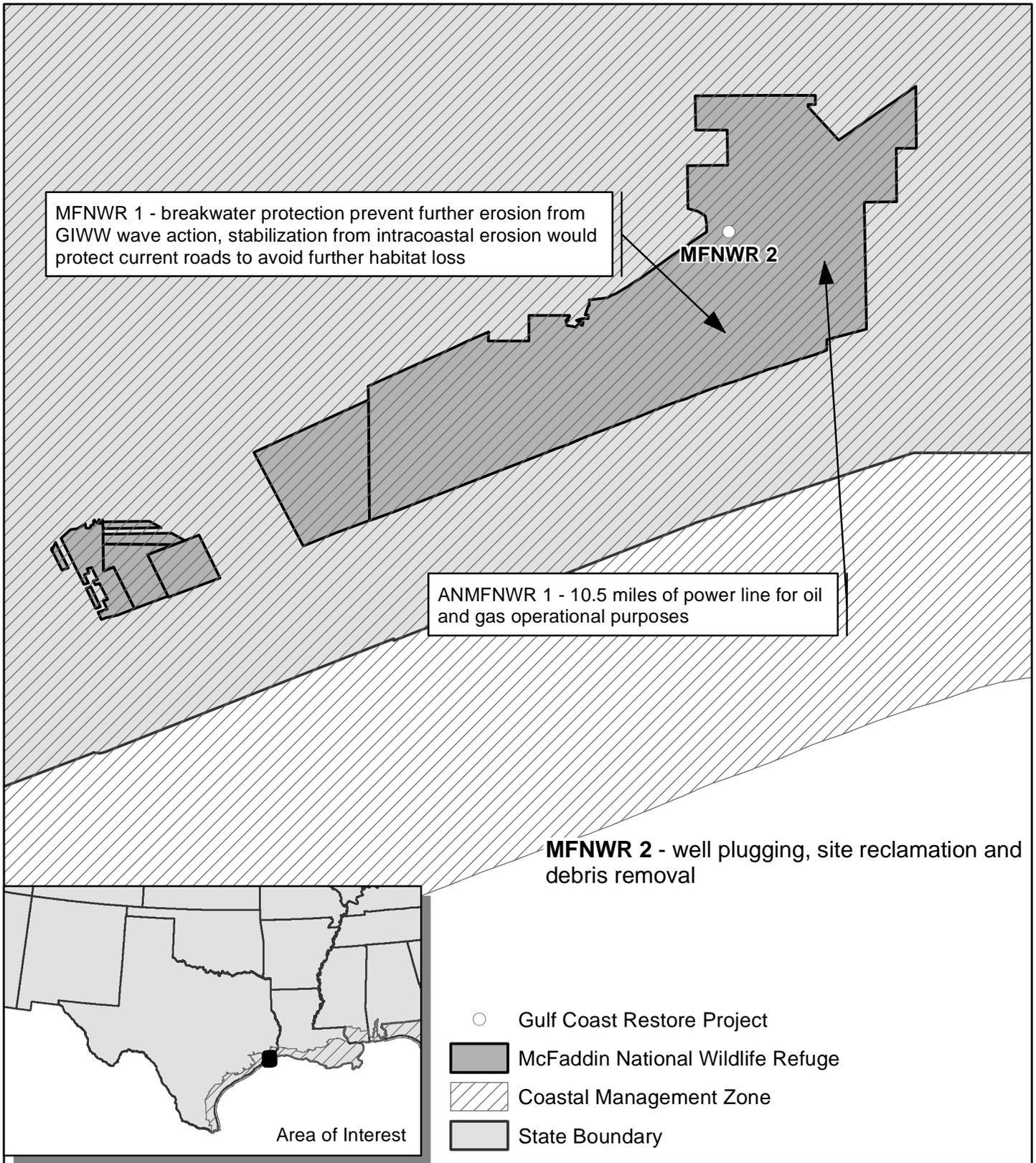




BRNWR 1 - breakwater installation due to subsidence from long-term oil and gas activity







Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: **LRGVNWR 1**

Map: **FWS TX - 1**

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)				
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: **LAATNWR 1**

Map: **FWS TX - 2**

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)				
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: **LRGVNWR 2**

Map: **FWS TX-1**

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)				
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: **LRGVNWR 3**

Map: **FWS TX-1**

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)				
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: **MIUNWR 1**

Map: **FWS TX-3**

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)				
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: **ARNWR 1**

Map: **FWS TX-4**

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)				
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: **BBNWR 1**

Map: **FWS TX-5**

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)			X	
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: **SBNWR 1**

Map: **FWS TX-6**

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)			X	
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: **BRNWR 1**

Map: **FWS TX-7**

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)			X	
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: **SBNWR 2**

Map: **FWS TX-6**

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)				
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: **SBNWR 3**

Map: **FWS TX-6**

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)				
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: ANNWR 1

Map: FWS TX-8

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)				
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

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Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: ANMFNWR 1

Map: FWS TX-8

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)				
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: ANMFNWR 1

Map: FWS TX-9

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)				
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: **MFNWR 1**

Map: **FWS TX-9**

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)	X			
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program

Project: **MFNWR 2**

Map: **FWS TX-9**

<u>Environmental Compliance Type</u>	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA – Categorical Exclusion				
NEPA – Environmental Assessment	X			
NEPA – Environmental Impact Statement				
Clean Water Act – 404 – Individual Permit (USACOE)				
Clean Water Act – 404 – General Permit (USACOE)				
Clean Water Act – 404 – Letters of Permission (USACOE)				
Clean Water Act – 401 – WQ certification				
Clean Water Act – 402 – NPDES				
Rivers and Harbors Act – Section 10 (USACOE)				
Endangered Species Act – Section 7 – Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act – Section 7 – Biological Assessment (BOEM, USACOE)				
Endangered Species Act – Section 7 – Biological Opinion (NMFS, USFWS)				
Endangered Species Act – Section 7 – Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) – Consultation (NMFS)				
Marine Mammal Protection Act – Incidental Take Permit (106) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)				
Bald and Golden Eagle Protection Act – Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act – Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act – Section 8 OCS Lands Sand Permit				
NHPA Section 106 – Consultation and Planning, ACHP, SHPO(s), and/or THPO(s)	X			
NHPA Section 106 – Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act – CBRS (Consultation)				
State				
As Applicable per State				

**NPS AND USFWS
ABANDONED OIL AND GAS WELL PLUGGING AND RECLAMATION**

BIG THICKET NATIONAL PRESERVE (TX)

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
BITH-WELL 194-WE-001 (Park ID 4224103194)	Re-plug and abandon this Marshall O&G well whose casing was exposed by the migration of the Neches River. Requires water based access by equipment in order to remove exposed pipe & replug well casing – Jack Gore Baygall Unit)	30.507769 -94.0814	0.10	Riverine wetland in a navigable river channel & city water supply source	2009 EA/FONSI, Contracted labor & Texas RRC assistance, Implementation w/i 1 year of funding	Environmental Compliance: \$0 Implementation: \$400,000
BITH-WELL 195-WE-001 (Park ID 4219903195)	Re-plug and abandon this Marshall O&G well whose casing was exposed by the migration of the Neches River. Requires water based access by equipment in order to remove exposed pipe & replug well casing – Jack Gore Baygall Unit)	30.507487 -94.081419	0.10	Riverine wetland in a navigable river channel & city water supply source	2009 EA/FONSI, Contracted labor & Texas RRC assistance, Implementation w/i 1 year of funding	Environmental Compliance: \$0 Implementation: \$400,000
BITH-WELL 196-WE-001 (Park ID 4219903196)	Re-plug and abandon this Marshall O&G well whose casing was exposed by the migration of the Neches River. Requires water based access by equipment in	30.50475 -94.082655	0.10	Riverine wetland in a navigable river channel & city water supply source	2009 EA/FONSI, Contracted labor & Texas RRC assistance, Implementation w/i 1	Environmental Compliance: \$0 Implementation: \$400,000

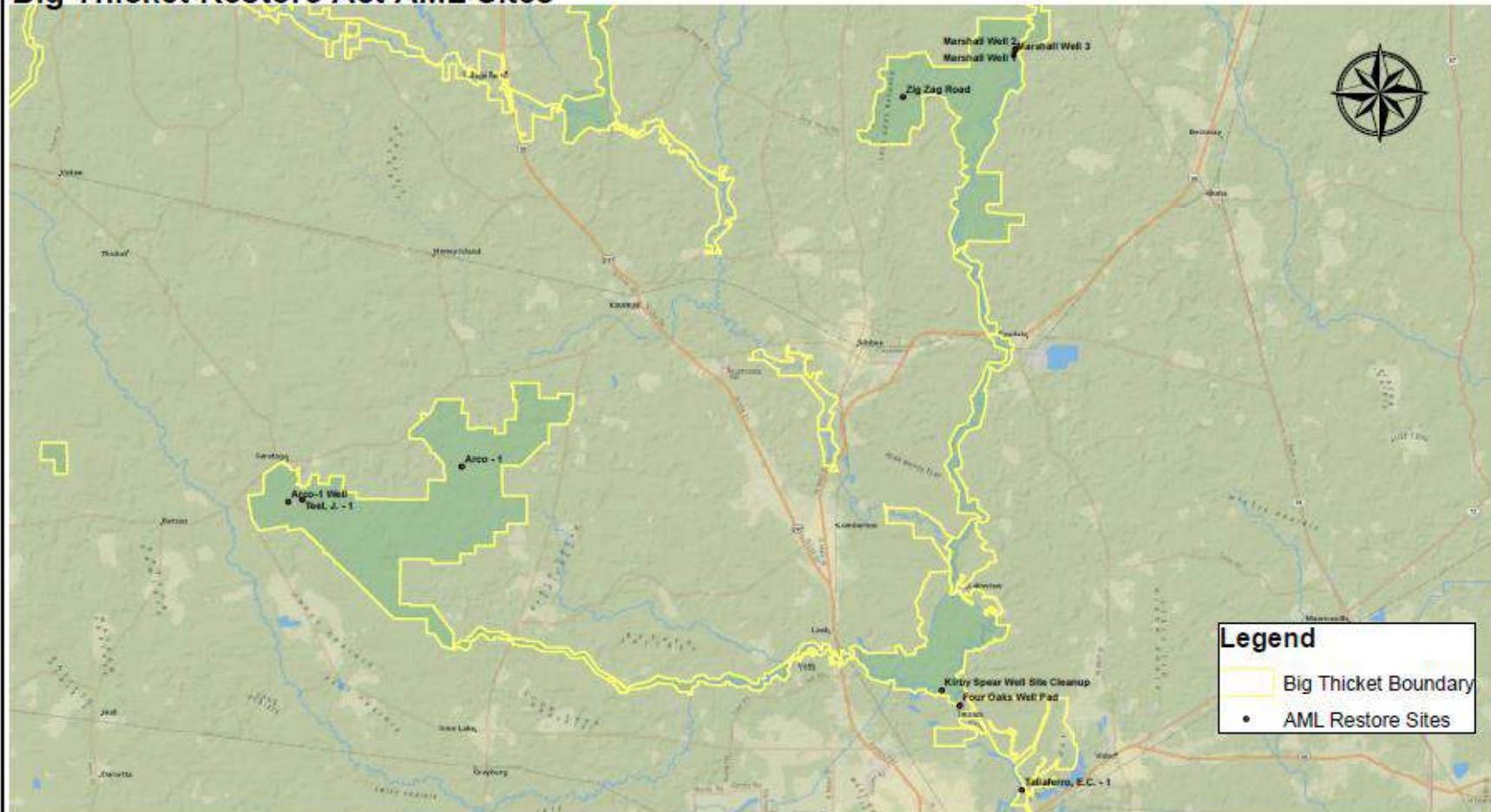
Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
	order to remove exposed pipe & replug well casing – Jack Gore Baygall Unit)Unit)				year of funding	
BITH-Taliaferro EC 1-WE-001 (Park ID 4236100044)	Re-plug and abandon the E.C. Taliaferro #1 O&G well located in a slip off of the Neches River south of the Saltwater Barrier. Requires water based access by equipment in order to remove exposed pipe & replug well casing – Beaumont Unit.	30.109887 -94.073154	0.10	Riverine wetland in a navigable river channel	Requires an addendum to 2009 EA/ FONSI (not incl. in original project list), Contracted labor & Texas RRC assistance, Implementation w/i 1 year of funding	Environmental Compliance: \$5,000 Implementation: \$400,000
BITH-4 Oaks Road Wellpad-WE-002 (White Oak) & BITH-4 Oaks Road Wellpad-ST-001 (Park ID 4236130671 & 4236130502)	Restore the former White Oak wellpad on 4 Oaks Ranch Road. Restoration will require removal of rock, regrading and contouring, native vegetation planting, and control of invasives. The abandoned well will be cut flush and cemented in if located during pad removal – Beaumont Unit. County road accesses site.	30.156811 -94.112777 And 30.156804 -94.112771	4.6	Lowland pine & bottomland hardwood forest near Neches River	Need site restoration plan CE for NEPA Contracted labor/equipment for removal of rock fill, any contaminated soils, & site restoration Implementation w/i 1 year of funding	Environmental Compliance: \$0 Implementation: \$200,000
BITH-Arco 1-WE-001 (Park ID 4219930109)	Plug an abandoned oil well that does not have a surface casing. Flush,	30.261324 -94.528388	0.25	Bottomland Hardwoods	2009 EA/FONSI, Contracted labor &	Environmental Compliance: \$0

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
	cut below surface, and plug with concrete to remove threat to Little Pine Island Bayou – Lance Rosier Unit				Texas RRC assistance, Implementation w/i 1 year of funding	Implementation: \$200,000
BITH-WELL 963-WE-001 (Park ID 4219900963)	Plug well bore and remove 30' of exposed 2" pipe along the intermittent stream to remove threat to Little Pine Island Bayou & groundwater– Lance Rosier Unit	30.280342 -94.421729	0.25	Bottomland Hardwoods and Cypress/Tupelo Swamps adjacent to water courses	2009 EA/FONSI, Contracted labor & Texas RRC assistance, Implementation w/i 1 year of funding	Environmental Compliance: \$0 Implementation: \$200,000
BITH-Teel J1-WE-001 (Park ID 4219900956)	Plug an abandoned oil well that does not have a surface casing. Flush, cut below surface, and plug with concrete to remove threat to Little Pine Island Bayou – Lance Rosier Unit	30.261375 -94.52029	0.25	Bottomland Hardwoods	2009 EA/FONSI, Contracted labor & Texas RRC assistance, Implementation w/i 1 year of funding	Environmental Compliance: \$0 Implementation: \$200,000
3 Former Kirby Spear Well Sites – as 1 project to minimize mobilization & access costs	Protect & Restore Wetlands at former well sites by removing all abandoned petroleum production equipment & contaminated soils on Neches River - Beaumont Unit	30.172202 -94.125637 And 30.164948 -94.12528	1.0	Cypress/Tupelo Swamp	Need site restoration plan CE for NEPA Contracted labor/equipment for removal of rock fill, any contaminated soils, & site restoration Implementation w/i	Environmental Compliance: \$0 Implementation: \$200,000

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
					one year of funding	
BITH-ZigZag Road-RD-001	Remove all fill from former oil well access road, recontour to restore hydrology, and revegetate with native grass mix	30.478973 -94.168961	10	Bottomland hardwoods	Need site restoration plan CE for NEPA Contracted labor/equipment for removal of rock fill and site restoration Implementation within one year of receiving funding	Environmental Compliance: \$0 Implementation: \$100,000

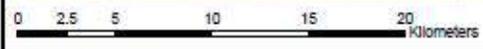


Big Thicket Restore Act AML Sites



Legend

- Big Thicket Boundary
- AML Restore Sites



Produced by Big Thicket National Preserve

October 2014

FILE: BITH11x17Landscape.mxd

Big Thicket Sample Photos of Proposed Project Sites



Exposed Marshall well plugged casing in the Neches River.



Example of petroleum production equipment left at former Kirby well sites along banks of Neches River



Exposed Taliaferro EC well casing in the Neches River



Road fill of Zig Zag road impacting overland flow and the hydrology of the bottomland hardwood forests.



Unplugged Arco wells in Lance Rosier Unit

**NPS AND USFWS
ABANDONED OIL AND GAS WELL PLUGGING AND RECLAMATION**

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
NPS-Jean Lafitte-1 Four well drilling locations at JELA require reclamation to mitigate potential hazards to navigation from well remains. Well frames would be removed and well casings cut below grade using barge-mounted equipment. They are listed to the right in priority order.	1 Inactive Operator Annie C Herrick #001	29.79399 -90.071661	0.1	Canal	Environmental Compliance and Permitting: 4 months	Environmental Compliance: \$15,000
	2 Inactive Operator Annie Herrick Et Al #001	29.787498 -90.076	0.1		Implementation: 1 month	Implementation: \$110,000
	3 Est of Wm G Helis (A Partnership) F H Dietz Et Al #003	29.787795 -90.094959	0.1			
	4 Westland Oil Development Corp. Foster E Creppel #001	29.786174 -90.087406	0.1			
NPS-Jean Lafitte-2 Approximately 16.5 miles of oil and gas exploration, pipeline, and other	Selected canals at the Barataria Preserve	29.809000 -90.127000	442	Canals and associated spoilbanks	Environmental Compliance and Permitting: Completed Implementation: 6 months	Environmental Compliance: \$0 Implementation: \$8,731,000

Site Number	Description	Location Latitude/Longitude	Acres	Ecosystem Type	Timeline	Cost
canals require reclamation through spoilbank degradation and backfilling. This truly shovel-ready project would continue a successful series of projects that restored approximately 140 acres of wetland and shallow water habitat in 2010.						

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

NPS-Jean Lafitte-1

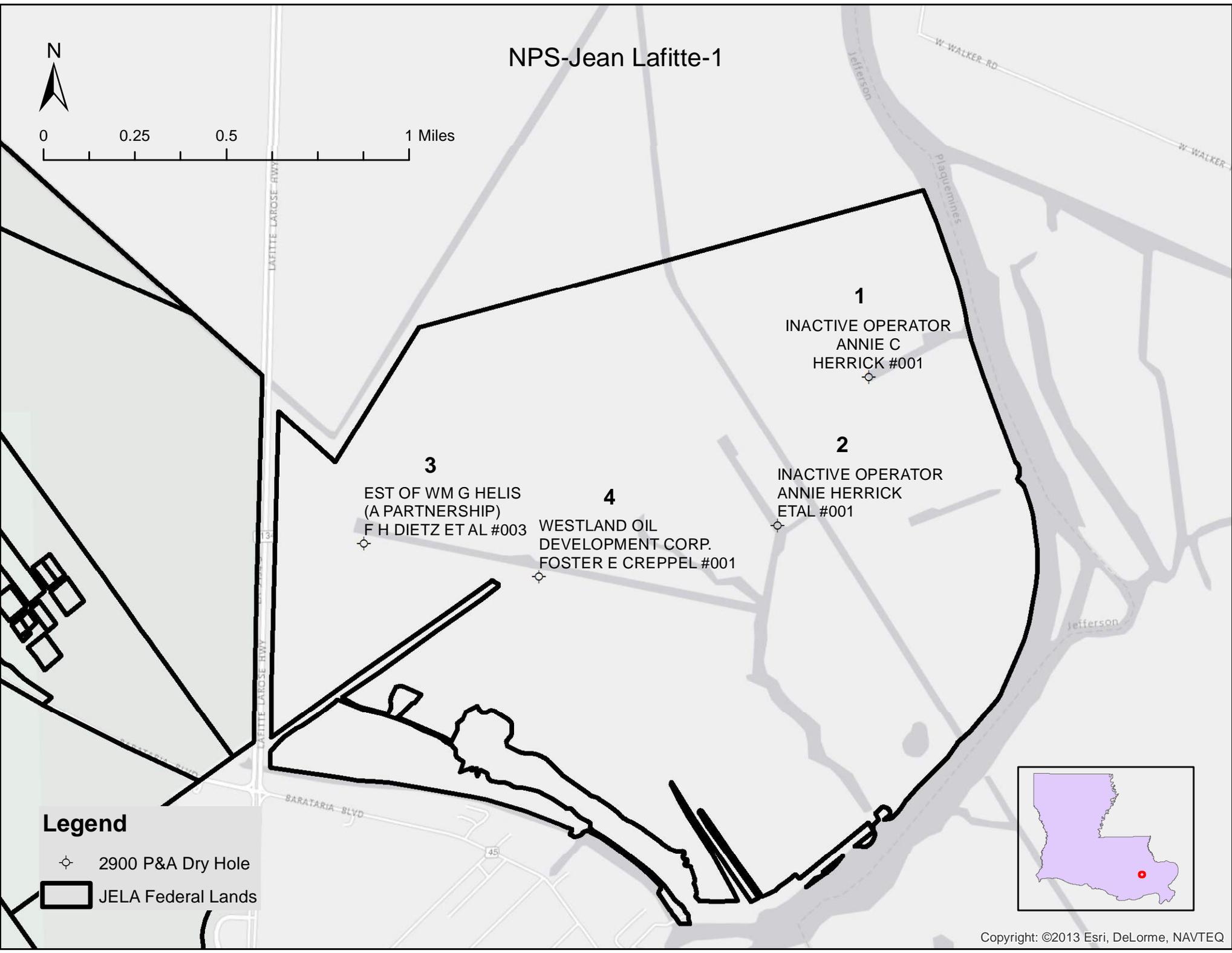
Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)		x		
Coastal Zone Management Act (CZMA)	x			
Fish and Wildlife Coordination Act		x		
Farmland Protection Policy Act (FPPA)		x		
NEPA-Categorical Exclusion	x			
NEPA-Environmental Assessment		x		
NEPA-Environmental Impact Statement		x		
Clean Water Act- 404- Individual Permit (USACOE)		x		
Clean Water Act- 404- General Permit(USACOE)	x			
Clean Water Act- 404-Letters of Permission(USACOE)		x		
Clean Water Act-401-WQ certification	x			
Clean Water Act- 402-NPDES		x		
Rivers and Harbors Act- Section 10 (USA CO E)	x			
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	x			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)		x		
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)		x		
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)		x		
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)		x		
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)		x		
Migratory Bird Treaty Act (USFWS)		x		
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)		x		
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)		x		
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit		x		
NHPA Section 106- Consultation and Planning ACHP, SI-IPO(s), and/or THPO(s)	x			
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement		x		
Tribal Consultation (Government to Government)		x		
Coastal Barriers Resource Act- CBRS (Consultation)		x		
State				
As Applicable per State	x			

NPS-Jean Lafitte-1



0 0.25 0.5 1 Miles



1

INACTIVE OPERATOR
ANNIE C
HERRICK #001

2

INACTIVE OPERATOR
ANNIE HERRICK
ETAL #001

3

EST OF WM G HELIS
(A PARTNERSHIP)
F H DIETZ ET AL #003

4

WESTLAND OIL
DEVELOPMENT CORP.
FOSTER E CREPPEL #001

Legend

- 2900 P&A Dry Hole
- JELA Federal Lands



Appendix B

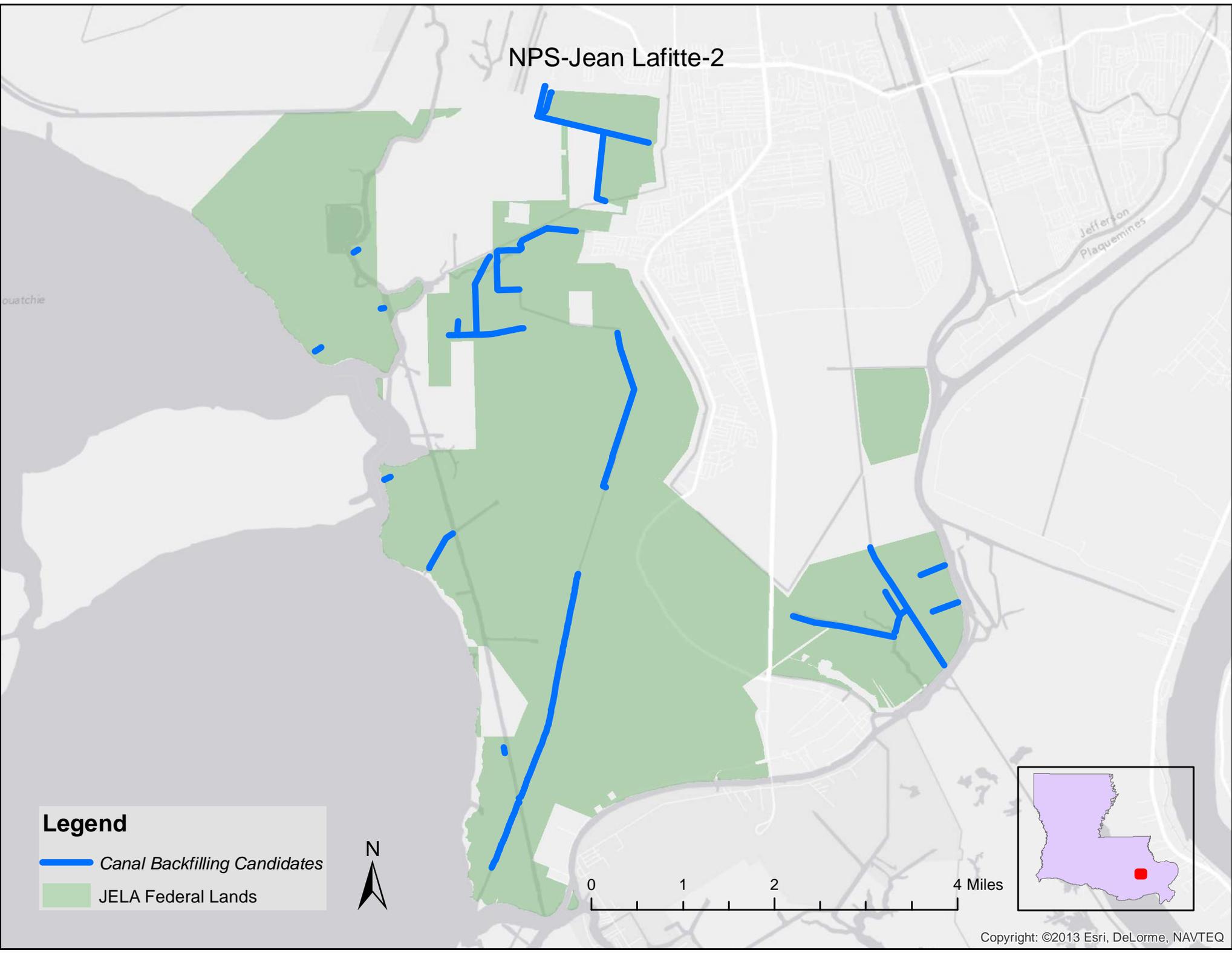
Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

NPS-Jean Lafitte-2 (shovel-ready)

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)		X		
Coastal Zone Management Act (CZMA)	X			
Fish and Wildlife Coordination Act		X		
Farmland Protection Policy Act (FPPA)		X		
NEPA-Categorical Exclusion		X		
NEPA-Environmental Assessment	X			
NEPA-Environmental Impact Statement		X		
Clean Water Act- 404- Individual Permit (USA CO E)	X			
Clean Water Act- 404- General Permit(USACOE)		X		
Clean Water Act- 404-Letters of Permission(USACOE)		X		
Clean Water Act-401-WQ certification	X			
Clean Water Act- 402-NPDES		X		
Rivers and Harbors Act- Section 10 (USA CO E)	X			
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	X			
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)		X		
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)		X		
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)		X		
Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)		X		
Marine Mammal Protection Act- Incidental Take Permit (106) (NMFS, USFWS)		X		
Migratory Bird Treaty Act (USFWS)		X		
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)		X		
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)		X		
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands and Sand permit		X		
NHPA Section 106- Consultation and Planning ACHP, SI-IPO(s), and/or THPO(s)	X			
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement		X		
Tribal Consultation (Government to Government)		X		
Coastal Barriers Resource Act- CBRS (Consultation)		X		
State				
As Applicable per State	X			

NPS-Jean Lafitte-2



Legend

-  Canal Backfilling Candidates
-  JELA Federal Lands



**NPS AND USFWS
ABANDONED OIL AND GAS WELL PLUGGING AND RECLAMATION**

PADRE ISLAND NATIONAL SEASHORE (TX)

Multiple abandoned oil and gas wells need plugging and associated well/production pads and oilfield access roads need reclamation; 3038 acres of wind tidal flats needs restoration from 2D seismic survey vehicle tracks, and 25 acres of the former Chevron shorebase production facility needs a characterization of contaminants and restoration.							
Site Number	Description	Location Latitude / Longitude	Acres	Ecosystem Type	Timeline	Cost	Total Cost
NPS-Padre Island-01	Plug Abandoned Well, State Tract 980S #1	-97.334584 27.334063	Well only	Barrier Island - Gulf Dune & Coastal Grassland <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007229 /002218	Environmental Compliance: Completed Implementation: 1 year Yr 1: complete reclamation	266,670	583,510
	Reclaim South Sprint Well Pad	-97.334584 27.334063	0.57	Barrier Island - Gulf Dune & Coastal Grassland <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007229 /002218	Environmental Compliance: Completed Implementation: 3 years Yr 1: complete reclamation Yrs 2-3: monitor revegetation success to attain 70% cover with native species	205,170	
	Reclaim Abandoned Access Road to South Sprint Well Pad	-97.334584 27.334063	1.2				
	Remove South Sprint Abandoned Surface Equipment	-97.334584 27.334063	Surface Equipment	Barrier Island - Gulf Dune & Coastal Grassland <u>PAIS</u> <u>Alliance:</u>	Environmental Compliance: Completed Implementation: 1 year Yr 1: complete reclamation	111,670	

				CEGL007229 /002218			See Above
NPS-Padre Island-02	Plug Abandoned Well, State Tract 1008-S #1	-97.360506 27.238788	Well only	Barrier Island - Gulf Dune & Coastal Grassland <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007229 /002218	Environmental Compliance: Completed Implementation: 1 year Yr 1: complete reclamation	196,467	421,807
	Reclaim Lemon Well Pad	-97.360506 27.238788	3.28	Barrier Island - Gulf Dune & Coastal Grassland <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007229 /002218	Environmental Compliance: Completed Implementation: 3 years Yr 1: complete reclamation Yrs 2-3: monitor revegetation success to attain 70% cover with native species	149,670	
	Reclaim Abandoned Access Road to Lemon Pad	-97.360506 27.238788	0.58				
	Remove Lemon Abandoned Surface Equipment	-97.360506 27.238788	Surface Equipment	Barrier Island - Gulf Dune & Coastal Grassland <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007229 /002218	Environmental Compliance: Completed Implementation: 1 year Yr 1: complete reclamation	75,670	
NPS-Padre Island-03	Plug Dunn McCampbell A-4 Well	-97.364693 27.286767	Well only	Barrier Island - Coastal Marsh <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007836	Environmental Compliance: Completed Implementation: 1 year Yr 1: complete reclamation	90,770	1,866,510

NPS-Padre Island-03 continued...	Plug Dunn McC Campbell 11-A Well	-97.356471 27.299182	Well only	Barrier Island - Coastal Marsh <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007836	Environmental Compliance: Completed Implementation: 1 year Yr 1: complete reclamation	103,270	See above
	Plug Dunn McC Campbell A-8 Well	-97.356471 27.299182	Well only	Barrier Island - Coastal Marsh <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007836	Environmental Compliance: Completed Implementation: 1 year Yr 1: complete reclamation	103,270	
	Plug State Tract 991-S #1 Well	-97.356471 27.299182	Well only	Barrier Island - Coastal Marsh <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007836	Environmental Compliance: Completed Implementation: 1 year Yr 1: complete reclamation	103,270	
	Plug Dunn-Peach #1 Well	-97.369730 27.295615	Well only	Barrier Island - Coastal Marsh <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007836	Environmental Compliance: Completed Implementation: 1 year Yr 1: complete reclamation	90,770	
	Plug Dunn-Peach #4ST Well	-97.369730 27.295615	Well only	Barrier Island - Coastal Marsh <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007836	Environmental Compliance: Completed Implementation: 1 year Yr 1: complete reclamation	90,770	
	Plug Dunn-Peach #5 Well	-97.369730 27.295615	Well only	Barrier Island - Coastal Marsh	Environmental Compliance: Completed Implementation: 1 year	90,770	

NPS-Padre Island-03 continued...				<u>PAIS Veg.</u> <u>Alliance:</u> CEGL007836	Yr 1: complete reclamation		See above
	Plug Dunn-Peach #6 Well	-97.369730 27.295615	Well only	Barrier Island - Coastal Marsh <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007836	Environmental Compliance: Completed Implementation: 1 year Yr 1: complete reclamation	90,770	
	Plug Dunn-Peach #7C/7T Well	-97.369730 27.295615	Well only	Barrier Island - Coastal Marsh <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007836	Environmental Compliance: Completed Implementation: 1 year Yr 1: complete reclamation	90,770	
	Reclaim PanAm Road	-97.336350 27.320583	11	Barrier Island - Coastal Grassland & Shrubland <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007222	Environmental Compliance: Completed Implementation: 3 years Yr 1-3: complete reclamation Yrs 4-5: monitor revegetation success to attain 70% cover with native species	525,770	
	Reclaim Peach Pad	-97.369730 27.295615	3	Barrier Island - Coastal Grassland & Shrubland <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007222	Environmental Compliance: Completed Implementation: 3 years Yr 1: complete reclamation Yrs 2-3: monitor revegetation success to attain 70% cover with native species	165,770	
	Reclaim A4 Pad	-97.364693 27.286767	0.512	Barrier Island - Coastal	Environmental Compliance: Completed		

NPS-Padre Island-03 continued...				Grassland & Shrubland <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007222	Implementation: 3 years Yr 1: complete reclamation Yrs 2-3: monitor of revegetation success to attain 70% cover with native species	131,770	See above
	Reclaim A3/A8 Pad	-97.356471 27.299182	2.349	Barrier Island - Coastal Grassland & Shrubland <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007222	Environmental Compliance: Completed Implementation: 3 years Yr 1: complete reclamation Yrs 2-3: monitor revegetation success to attain 70% cover with native species	188,770	
NPS-Padre Island-04	Characterization and Reclamation of Chevron Shorebase Production Pad	-97.28372 27.46167	25	Barrier Island - Gulf Dune & Coastal Grassland <u>PAIS Veg.</u> <u>Alliance:</u> CEGL007229 /002218	Environmental Compliance: None Implementation: 3 years Yr 1: Characterization and reclamation Yrs 2-3: monitor revegetation success to attain 70% cover with native species	500,000	500,000
NPS-Padre Island-05	Reclaim Wind Tidal Flat Vehicle Tracks	-97.38533 27.19043	3038	Barrier Island - Salt Flat & Panne Tidal Flat <u>PAIS Veg.</u> <u>Alliance:</u> CEGL003956	Environmental Compliance: Submitted with USACE for Experimental Plots Implementation: 6 years Yr 1: Experimental Plots Yrs 2-3: Complete Resoration Yrs 4-6: Monitoring of hydrology, benthic invertebrates, &	600,000	600,000

					revegetation/algal growth to attain 70% cover with native species		
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Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	X		Completed	
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	X		Completed	
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)	X		Completed	
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)	X		Completed	
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)	X		Completed	
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section 106- Consultation and Plarming ACHP, SIPO(s), and/or THPO(s)	X		Completed	
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	X		Completed	
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)				
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	X		Completed	
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)	X		Completed	
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)	X		Completed	
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)	X		Completed	
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section 106- Consultation and Plarming ACHP, SIPO(s), and/or THPO(s)	X		Completed	
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

Appendix B

Gulf Coast Ecosystem Restoration Council Environmental Compliance Checklist

Please check all federal and state environmental compliance and permit requirements as appropriate to the proposed project/program.

Environmental Compliance Type	Yes	No	Applied For	N/A
Federal				
National Marine Sanctuaries Act (NMSA)				
Coastal Zone Management Act (CZMA)				
Fish and Wildlife Coordination Act				
Farmland Protection Policy Act (FPPA)				
NEPA-Categorical Exclusion				
NEPA-Environmental Assessment	X		Processing	
NEPA-Environmental Impact Statement				
Clean Water Act- 404- Individual Permit (USA CO E)	X		Completed	
Clean Water Act- 404- General Permit(USACOE)				
Clean Water Act- 404-Letters of Permission(USACOE)				
Clean Water Act-401-WQ certification				
Clean Water Act- 402-NPDES				
Rivers and Harbors Act- Section I 0 (USA CO E)				
Endangered Species Act- Section 7- Informal and Formal Consultation (NMFS, USFWS)	X		Completed	
Endangered Species Act- Section 7- Biological Assessment (BOEM,USACOE)				
Endangered Species Act- Section 7-Biological Opinion (NMFS, USF\VS)				
Endangered Species Act- Section 7- Permit for Take (NMFS, USFWS)				
Magnuson-Stevens Fishety Conservation and Management Act Essential Fish Habitat (EFH)- Consultation (NMFS)				
Marine Mammal Protection Act- Incidental Take Permit (I 06) (NMFS, USFWS)				
Migratory Bird Treaty Act (USFWS)	X		Completed	
Bald and Golden Eagle Protection Act- Consultation and Planning (USFWS)				
Marine Protection, Research and Sanctuaries Act- Section 103 permit (NMFS)				
BOEM Outer Continental Shelf Lands Act- Section 8 OCS Lands Sand permit				
NHPA Section 106- Consultation and Plarming ACHP, SIPO(s), and/or THPO(s)	X		Completed	
NHPA Section 106 -Memorandum of Agreement/Programmatic Agreement				
Tribal Consultation (Government to Government)				
Coastal Barriers Resource Act- CBRS (Consultation)				
State				
As Applicable per State				

Site Number

Description

NPS-Padre Island-01

Plug A bandoned Well, State Tract 980S #1

Reclaim South Sprint Well Pad

Reclaim A bandoned A ccess Road to South Sprint Well Pad

Remove South Sprint A bandoned Surface Equipment



0 125 250 500 750 1,000 Feet

Source: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., ©Esri, ©USGS, ©FAD, NPS, NRCAN, ©GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

NPS - Padre Island – 01



Figure 01-A. South Sprint Tank Battery



Figure 01-B. South Sprint glycol dehydration unit and line heater



Figure 01-C. South Sprint gas metering unit and glycol dehydration units



Figure 01-D. South Sprint glycol dehydration unit



Figure 01-E. South Sprint glycol dehydration unit



Figure 01-F. South Sprint State Gas Unit 980S #1 Well

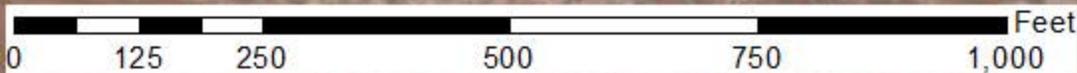
NPS-Padre Island-02

Plug Abandoned Well, State Tract 1008-S #1

Reclaim Lemon Well Pad

Reclaim Abandoned Access Road to Lemon Pad

Remove Lemon Abandoned Surface Equipment



NPS - Padre Island - 02



Figure 02-A. Lemon tank battery



Figure 02-B. Lemon glycol dehydration tower and line heater



Figure 02-C. Lemon communication tower



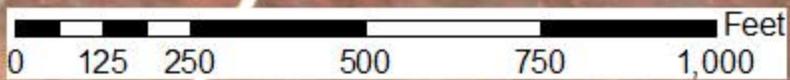
Figure 02-D. Lemon State Tract 1008-S #1 Well

NPS-Padre Island-03

Plug Dunn McCampbell 11-A
Well

Plug Dunn McCampbell A-8
Well

Plug State Tract 991-S #1 Well
A3A8 Well Pad



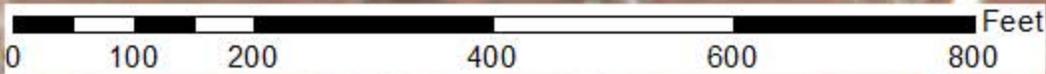
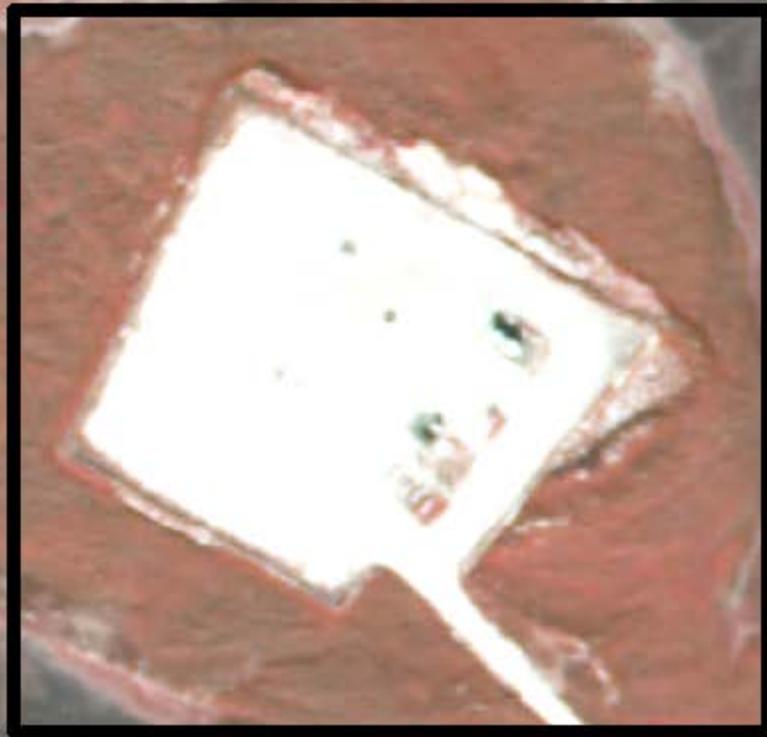
NPS-Padre Island-03

Plug Dunn McCampbell A-4 Well
Reclaim A4 Pad



NPS-Padre Island-03

- Plug Dunn-Peach #1 Well
- Plug Dunn-Peach #4ST Well
- Plug Dunn-Peach #5 Well
- Plug Dunn-Peach #6 Well
- Plug Dunn-Peach #7C/7T Well
- Reclaim Peach Pad



NPS-Padre Island-03

PanAm Road



0 750 1,500 3,000 4,500 6,000 Feet

NPS - Padre Island - 03



Figure 03-A. Dunn McCampbell A-4 Well



Figure 03-B. Dunn McCampbell State Tract 991-S #1



Figure 03-C. Dunn McCampbell A-8 Water Supply Well



Figure 03-D. Dunn McCampbell A-11 Well



Figure 03-E. Dunn-Peach #6 Well

NPS - Padre Island - 03



Figure 03-F. Dunn-Peach #1 Well



Figure 03-G. Dunn-Peach 7C/7T Well



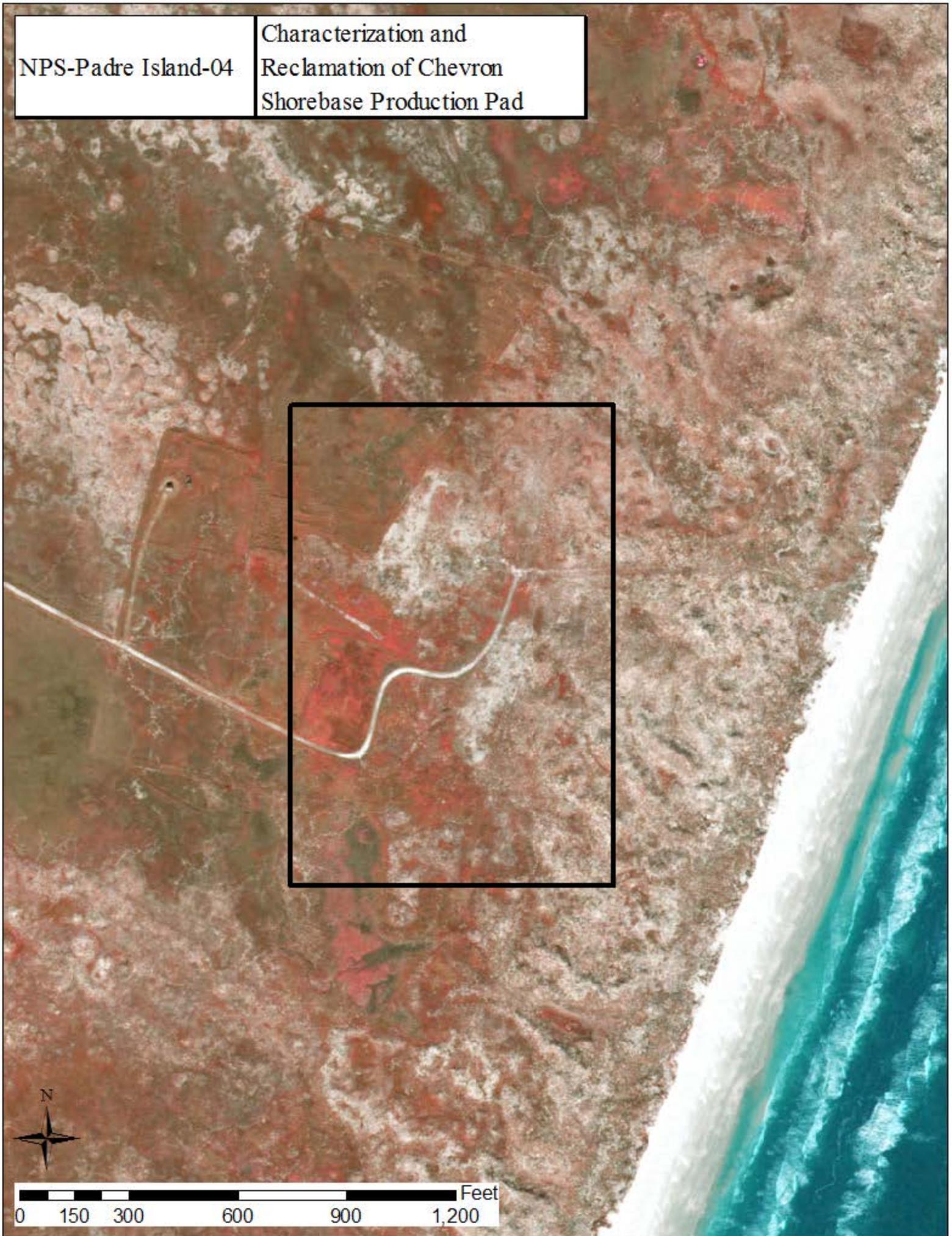
Figure 03-H. Dunn-Peach #5 Well



Figure 03-I. Dunn-Peach #4ST Well

NPS-Padre Island-04

Characterization and
Reclamation of Chevron
Shorebase Production Pad



0 150 300 600 900 1,200 Feet

NPS-Padre Island-05

Reclaim Wind Tidal Flat
Vehicle Tracks



0 1,500 3,000 6,000 9,000 12,000 Feet

NPS – Padre Island - 05



Figure 05-A. Aerial Image of Vehicle Tracks in the 1970's.



Figure 05-B. Aerial Image of Vehicle Tracks from the 1970's persisting into present day.



Figure 05-C. Hydrological affects from vehicle damage.



ELIGIBILITY REVIEW

Bucket 2 – Council Selected Restoration Component

PROPOSAL TITLE

Abandoned Oil and Gas Well Plugging and Site Reclamation

PROPOSAL NUMBER

DOI-3

LOCATION

LA and TX: 7 FWS National Refuges in LA, 9 NWR in TX, 1 NPS unit LA, 2 NPS units TX

SPONSOR(S)

Department of the Interior

TYPE OF FUNDING REQUESTED (Planning, Technical Assistance, Implementation)

Planning, Technical Assistance, Implementation

REVIEWED BY:

Bethany Carl Kraft/ Ben Scaggs

DATE:

11-18-14

1. Does the project aim to restore and/or protect natural resources, ecosystems, fisheries, marine and wildlife habitat, beaches, coastal wetlands and economy of the Gulf Coast Region?

YES NO

Notes:

Abandoned oil and gas well plugging and site reclamation in US FWS and National Park Service Areas.

2. Is the proposal a project?

YES NO

If yes, is the proposed activity a discrete project or group of projects where the full scope of the restoration or protection activity has been defined?

YES NO

Notes:

3. Is the proposal a program?

YES NO

If yes, does the proposed activity establish a program where the program manager will solicit, evaluate, select, and carry out discrete projects that best meet the program's restoration objectives and evaluation criteria?

YES NO

Notes:

4. Is the project within the Gulf Coast Region of the respective Gulf States?

YES NO

If no, do project benefits accrue in the Gulf Coast Region?

YES NO

Notes:



Eligibility Determination

ELIGIBLE

Additional Information

[Empty box for additional information]

Proposal Submission Requirements

1. Is the project submission overall layout complete? *Check if included and formatted correctly.*

- | | | | |
|--------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|
| A. Summary sheet | <input checked="" type="checkbox"/> | F. Environmental compliance checklist | <input checked="" type="checkbox"/> |
| B. Executive summary | <input checked="" type="checkbox"/> | G. Data/Information sharing plan | <input checked="" type="checkbox"/> |
| C. Proposal narrative | <input checked="" type="checkbox"/> | H. Reference list | <input checked="" type="checkbox"/> |
| D. Location information | <input checked="" type="checkbox"/> | I. Other | <input type="checkbox"/> |
| E. High level budget narrative | <input checked="" type="checkbox"/> | | |

If any items are NOT included - please list and provide details

[Empty box for listing missing items and details]

2. Are all proposal components presented within the specified page limits (if applicable)?

YES NO

Notes: