

# JOINT PUBLIC NOTICE

January 30, 2017

United States Army  
Corps of Engineers  
New Orleans District  
Regulatory Branch  
7400 Leake Avenue  
New Orleans, Louisiana 70118

State of Louisiana  
Department of Environmental Quality  
Water Quality Certification Section  
Post Office Box 4313  
Baton Rouge, Louisiana 70821

Office: (504) 862-2272  
Project Manager  
Amy Oestringer  
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Reference Number:  
MVN 2007-01994 WQQ

(225) 219-3225  
Project Manager  
Elizabeth Hill  
elizabeth.hill@la.gov  
WQC Number:  
140807-02

## **SPECIAL PUBLIC NOTICE**

### **RE-EVALUATION OF GENERAL PERMIT (GP-13) (PREVIOUSLY NOD-13) FOR ACCESS ROADS AND RING LEVEES WITHIN THE NEW ORLEANS DISTRICT**

The regional general permit NOD -13 was originally issued on March 22, 1981, and was most recently extended and modified on November 24, 2014 ("2014 NOD-13"). The New Orleans District is undertaking a re-evaluation of the permit under the procedures prescribed by 33 CFR 325.7. The re-evaluation was initially advertised by a Public Notice dated July, 4, 2016.

NOD-13 has proven to be an effective method in reviewing and authorizing certain applicable oil and gas related projects within the New Orleans District in a timely manner without the need for a public notice, and its related costs. Evaluating applications under the general permit procedures for projects which qualify allows for better use of personnel resources, while allowing for adequate assessment of proposed impacts. However, concerns raised about the potential impact of the authorized activities on the dynamic watershed of the Atchafalaya Basin have prompted the District Engineer to re-evaluate whether it is in the public interest to exclude the Basin from the use of the GP-13 permit.

**As of the date of this Notice, the 2014 NOD-13 is revoked for future use in the Atchafalaya Basin, as designated by USGS Hydrologic Code 08080101. This revocation is limited to the specific geographic area identified above, and this constitutes the public notice required by 33 CFR 325.7(e). The revocation is prospective only, and does not affect the status of permittees or projects previously authorized.** Furthermore, until the re-evaluation is complete, 2014 NOD-13 is not available to be used for review and authorization of proposed projects elsewhere within the New Orleans District.

The following modifications below are proposed for the GP-13 and as attached hereunto.

- 1. Exclusion "k." was added to exclude the use of GP-13 for projects located within the Atchafalaya Basin as defined by USGS Hydrologic Unit Code: 08080101.**
2. Condition "a." was changed to limit access road size in wetlands.

3. Condition "d.1." was changed to require the size and placement location of culverts to be shown on permit application drawings.
4. Condition "d.3." was changed to indicate that required compensatory mitigation must be completed prior to granting individual authorizations under this permit.
5. Condition "k.3." was changed to further define adequate culvert placement to maintain area natural hydrology.
6. Condition "o" was changed to limit well pad size dimensions in wetlands.

Specific legislation requiring Department of the Army permits for work of this nature are regulated under Section 10 of the River and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 U.S.C. 403); and/or Section 404 of the Clean Water Act (P.L. 95-217; 33 U.S.C. 1341).

A request has been made to the Louisiana Department of Environmental Quality, Water Quality Certification Section, for a Water Quality Certification (WQC) in accordance with statutory authority contained in Louisiana Revised Statutes of 1950, Title 30, Chapter 11, Part IV, Section 2074 A(3) and provisions of Section 401 of the Clean Water Act (P.L.95-17).

The comment period for the Department of the Army (DA) reevaluation and the Louisiana Department of Environmental Quality WQC will close **20 days** from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the relevant activities, stating reasons thereof, are being solicited from anyone having interest in this GP-13 reevaluation and/or this WQC request and must be submitted so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit reevaluation must reference the GP-13 and the Corps reference number, and be forwarded to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. Individuals or parties may request an extension of time in which to comment on the proposed extension by writing, faxing, or e-mailing the Corps of Engineers Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requester will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days. Letters concerning the Water Quality Certification must reference the applicant's name and the WQC number and be mailed to the Louisiana Department of Environmental Quality at the address above.

The application for the reevaluation of the GP-13 is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 5:00 p.m. Copies may be obtained upon payment of costs of reproduction.

### **Corps of Engineers Permit Criteria**

The decision whether to modify, suspend, or revoke the GP-13 will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activities on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of proposed activities under this general permit. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to modify, suspend, or revoke the GP-13. To make this decision, comments are used to assess the impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The possibility exists that work proposed under the GP-13 could damage or destroy properties listed on the National Register of Historic Places or unknown archeological, scientific, prehistorical, historical sites, or data. Copies of this notice are being sent to the State Archeologist, the State Historic Preservation Officer, and all pertinent Tribal Historic Preservation Officers.

Authorization would not be granted under this General Permit for proposed work that would affect any species listed as endangered by the U.S. Departments of Interior or Commerce, or affect any habitat designated as critical to the survival and recovery of any endangered species. Utilizing Standard Local Operating Procedure for Endangered Species in Louisiana (SLOPES), dated October 22, 2014, between the U.S. Army Corps of Engineers, New Orleans and U.S. Fish and Wildlife Service, Ecological Services Office, the Corps would first determine if activities proposed under GP-13 would have an effect on any listed species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Our initial determination is that proposed activities under the GP-13 would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico.

If proposed work under the GP-13 involves deposition of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency (40 CFR Part 230). A certification that proposed activities under the GP-13 will not violate applicable water quality standards will be required from the Department of Environmental Quality.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this GP-13 reevaluation. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Applicants proposing to conduct work under this General Permit must certify that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program.

Martin S. Mayer  
Chief, Regulatory Branch

Enclosures



**DEPARTMENT OF THE ARMY**  
CORPS OF ENGINEERS, NEW ORLEANS DISTRICT  
7400 LEAKE AVENUE  
NEW ORLEANS, LOUISIANA 70118

REPLY TO  
ATTENTION OF:  
Operations Division  
Regulatory Branch

**DEPARTMENT OF THE ARMY GENERAL PERMIT**

Authorization No.: General Permit 13 (GP-13)  
MVN-2007-01994 WQQ

Original Effective Date: March 22, 1981

Proposed Expiration Date: February 28, 2022

Under authorization granted by applicable sections of Parts 320 through 332 of Title 33, Code of Federal Regulations, and delegated authority from the Commander, U.S. Army Corps of Engineers, the District Engineer at New Orleans has determined that it is in the public interest to issue a general permit for dredging and the deposition of dredged and/or fill material for construction of oilfield access roads, drilling locations, pits, ring levees, and associated facilities in jurisdictional waters of the U.S., including wetlands, within certain boundaries of the New Orleans District. This general permit does not apply to projects seeking permits for discharges of dredged or fill material within the Atchafalaya Basin (as defined by USGS Hydrological Code: 08080101).

Specific legislation requiring Department of the Army permits for work of this nature are:

- a. Section 10 of the Rivers and Harbors Act of March 3, 1899 (33 USC 403), and
- b. Section 404 of the Clean Water Act (33 USC 1344).

This general permit does not authorize work within the following areas:

- a. In or within one mile of the boundaries of any national park or monument, wildlife refuge, management area, state park, and established buffer zone at a national park site without approval of the respective park, refuge, management area, or monument manager.
- b. Within one-half mile of a bald eagle nesting site.
- c. Within one-half mile of a known rookery area.
- d. Within any area where the activity is likely to adversely affect federally listed threatened or endangered species, a species proposed for such designation, or that is likely to destroy or adversely modify the critical habitat of such species.

e. Within one-quarter mile of any mainline flood control or hurricane protection levee constructed and/or maintained with federal funds without prior coordination with, and approval from the New Orleans District and the respective levee board.

f. Within one-quarter mile of a levee or other flood control facilities owned or operated by agencies of state and local government without the written consent of the appropriate agency or governing body.

g. In or within 500 feet of any designated scenic stream.

h. On barrier islands.

i. At or in close proximity to any known historic or archeological site or within the boundaries of a historic district.

j. On any lands used for compensatory mitigation purposes without written approval of: 1) the landowner, 2) party responsible for the mitigation project (Mitigation Bank or ILF program sponsor, or permittee), and 3) the Interagency Review Team responsible for oversight of the mitigation project.

k. Within the Atchafalaya Basin as defined by USGS Hydrologic Unit Code: 08080101 (see attachment 3).

Work authorized by this general permit is subject to the applicable standard conditions of permit form ENG Form 1721. A copy of the form is attached to this general permit as enclosure 1. A copy of a typical access road and ring levee drawing is attached as enclosure 2.

The following special conditions are made a part of this permit:

a. The maximum length of access roads within wetlands, including appurtenant wings and/or pull-overs, authorized by this permit is 1,500 feet. The maximum top width of roads shall not exceed 20 feet, maximum berm width shall not exceed 15 feet, and the maximum top width of staggered borrow areas shall not exceed 20 feet.

b. Work authorized by this permit must follow the shortest, most direct route through wetlands unless acceptable reasons for deviations are provided. Legitimate reasons for deviating include, but are not limited to, avoiding cultural resources sites, ponds utilized by waterfowl, shellfish or mollusk producing ponds, and property on which right-of-way cannot be obtained.

c. Authorized work must follow existing access roads, pipelines, powerlines, and similar disturbed areas to the maximum extent practicable.

d. Applications for work to be performed under authority of this general permit must include the following:

(1) A completed application form (ENG Form 4345), and drawings clearly showing the location, character, and extent of the proposed work, including culvert size and placement location (see enclosure 2).

(2) A detailed discussion of alternative drilling sites and alternate routes considered and reasons why an apparently less environmentally damaging alternative was not selected.

(3) A statement describing how impacts to wetlands and other waters of the United States are to be avoided and minimized; and either a statement describing how impacts are to be compensated for or a statement explaining why compensatory mitigation should not be required for the proposed impacts. Any required compensatory mitigation must be completed prior to granting individual authorizations under this general permit.

(4) Signed statements from the affected landowners establishing that they have no objection to the required restoration as specified by conditions r, t, and v, below, and that they agree not to develop or disturb restoration/mitigation areas without the prior approval of the District Engineer.

e. Fills must utilize non-wetland areas, existing roads, existing dredged material deposits, and similar areas to the maximum extent practicable.

f. To ensure compliance with conditions b, c, d, and e, immediately above, drawings submitted with applications for work under this general permit must:

(1) Show all existing roads, waterways, well locations, pipelines, canals, etc., within one mile of the proposed work site.

(2) Provide the authorization under which any existing privately-owned road which connects with a proposed road was constructed. If the authorization number is not known, the approximate date of construction and interest which constructed the road must be provided, if known.

g. Additional conditions may be added to this general permit by the District Engineer if it is found to be in the public interest to do so.

h. This general permit and/or any individual authorizations granted under this permit may be suspended, in whole or part, by the District Engineer if it is found to be in the public interest to do so.

i. If cultural resources are uncovered at a site of work authorized by this general permit, work must be suspended and written notification provided to the State Historic Preservation Officer and to the Regulatory Branch of this office with reference to the Department of the Army basefile permit number.

j. Work authorized by this general permit may not be performed until the Regulatory Branch of this office has reviewed the material submitted by applicants and notified applicants that the work may proceed.

k. Culverts shall be installed through the road fills in accordance with the following:

- (1) Minimum diameter shall be 24 inches.
- (2) Maximum distance between culvert installations shall be 500 feet.
- (3) Culverts shall be installed at all crossings of streams, ditches, sloughs and low lying areas. These culverts shall be of sufficient size so as to convey normal flows and shall be installed so as to approximate pre-project flow conditions. Installed culverts shall not promote drainage of wetlands nor disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody. Road shall not cause unnatural ponding or flooding on adjacent properties.
- (4) Bottomless culverts are recommended for crossings of perennial and intermittent streams. If standard culverts are utilized in these streams, twenty percent (20%) of the culvert diameter (20 percent of the height of elliptical/arched culverts) shall be installed below the natural grade of the stream, and any natural streambed substrate material excavated from the installation site should be placed inside the bottom of the installed culvert to reestablish affected stream bottom habitat.

l. Culvert openings must be maintained to allow for free flow of water.

m. Bridges with clear openings at least 6 feet wide may be used in lieu of culverts.

n. Borrow pits for road fills must be discontinuous. The pits should be staggered with a maximum length of 300 feet. If pits are not staggered, gaps at least 50 feet in length shall be left between the 300-foot long segments of borrow pits. Culverts or bridge openings may not be installed through road fills to connect staggered segments of the borrow pit. Culverts and/or ditches may not be installed to connect sections of discontinuous borrow pit along one side of a road fill.

o. The maximum outside dimensions of ring levees shall not exceed 400 x 400 feet, or a total area of 160,000 square feet, within wetlands. See special condition aa.

p. Material for construction of ring levees must be excavated from inside the leveed areas. All pits (e.g., production, sludge, or burn pits) must be located within in the ring levee.



q. Material used for the construction of the roads and ring levees must be free of pollutants, contaminants, toxic materials, trash, and other waste materials.

r. Ring levees shall be degraded by restoring the material with which they were built into the areas from which it was removed, and disturbed areas leveled and restored to as near pre-project conditions as practicable within 30 days after pits have been cleaned.

s. The discharge and/or disposal of drilling muds, cuttings associated with drilling fluids, and produced waters from drilling or production operations must be in compliance with federal and state regulations.

t. Road fills and/or drilling pads in wetlands constructed with native material shall be degraded when the locations which they were installed to serve are abandoned. The material shall be deposited to the extent practicable into the borrow areas from which it was excavated and the area leveled and restored to as near pre-project conditions as practicable. If the road fills and/or drilling pads in wetlands were constructed with hauled-in material, that material shall be removed from the site and hauled to a non-wetland area, with the project site being leveled and restored to as near pre-project conditions as practicable. Restoration must be accomplished within 90 days of abandonment unless the District Engineer has granted additional time in writing because of weather conditions or clearly unusual circumstances. Requests for additional time must be made by the permittee or agent in writing at least 20 days prior to expiration of the 90 day period allowed for restoration with reference to the Department of the Army basefile permit number. Abandoned sites shall be replanted with appropriate species, depending upon the original habitat type, in the first planting season (December 15 through March 15) following abandonment. Invasive species shall be controlled on all restored areas such that noxious/exotic vegetation stem density comprises no more than 10% of the total stem density of the replanted area until canopy closure is achieved.

u. Boards and other extraneous construction material shall be removed from the site prior to commencement of degrading operations. All plastic sheeting shall be removed from areas of the roadway and drill site from which boards are removed.

v. If the well is completed successfully, the permittee shall;

(1) Reduce the well pad to the minimum size necessary for production, and the ring levee and the remaining unnecessary portion of the drill site shall be restored to pre-project conditions within 90 days of well completion and planted with appropriate species, depending upon the original habitat type.

(2) As specified by condition t above, restore the access road and production pad to pre-project conditions within 90 days of cessation of production, and plant the restored areas with appropriate species, depending upon the original habitat type.

w. The District Engineer must be notified of abandonment of wells served by facilities authorized by this general permit within 10 days of abandonment. The notification must be in writing, must include the date of abandonment and the estimated date the restoration work will begin with reference to the Department of the Army basefile permit number.

x. Further written notification must be given to the District Engineer within 5 days of completion of any restoration work, including a plan view drawing identifying the restored areas, the species planted, and the dates of restoration work with reference to the Department of the Army basefile permit number.

y. The permittee is made aware that all restored sites are subject to Clean Water Act jurisdiction and Department of the Army permit authority. Therefore, the permittee shall not conduct any excavation or fill activities on the restored sites without notification of, and written authorization from, the New Orleans District.

z. If the project requires any additional structures or facilities not expressly permitted herein, including flowlines/pipelines to transport product from the site, the permittee shall contact this office to determine if an amendment to this authorization will be required.

aa. A geologic review meeting will be required for the following items of work applied for under this general permit:

- (1) All board roads within wetlands, regardless of length.
- (2) Ring levees within wetlands larger than 300' X 300', or 90,000 square feet.
- (3) Ring levees within wetlands with maximum dimensions of 300' X 300' if an existing ring levee exists within the directional drilling radius. The directional drilling radius is the maximum distance from a proposed bottom hole location from which a given well feasibly can be directionally drilled. It is determined by the following formula:  $[(\text{proposed total well depth in feet} - \text{surface casing distance in feet} - 1425) \times .57735027] + 375$ . If, at the conclusion of the meeting it is determined that it is technically and/or economically infeasible to reduce the dimensions of the board road and/or ring levee, authorization will be granted under this general permit provided the project meets all other terms and conditions of this general permit.
- (4) At the discretion of the District Engineer, when specific and substantive questions are provided, and/or information is requested, by an interested resource agency.

bb. Interests performing work under authority of this general permit must obtain water quality certification from the Louisiana Department of Environmental Quality (DEQ) before any work may be accomplished. Requests for the certification must advise the DEQ that they propose to perform their work under authority of this general permit.

cc. Interests performing work under authority of this general permit within Louisiana's Coastal Zone must obtain a coastal use permit or waiver from the Louisiana Department of Natural Resources, Office of Coastal Management, prior to commencement of work.

dd. Individual approvals granted under this general permit allow 5 years from the date of the approval letter to complete the project.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

Martin S. Mayer  
Chief, Regulatory Branch  
for  
Michael N. Clancy  
Colonel, U.S. Army  
District Commander

Enclosures

1. ENG Form 1721
2. Dwgs (4 sheets)
3. Figure 1
4. Figure 2

**DEPARTMENT OF THE ARMY PERMIT**

Permittee USACE-CEMVN

Permittee No. MVN-2007-01994 WQQ GP-13

Issuing Office CEMVN

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description:

Project Location:

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on \_\_\_\_\_. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
  - (  ) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
  - (  ) Section 404 of the Clean Water Act (33 U.S.C. 1344).
  - (  ) Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413)
2. Limits of the authorization.
  - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
  - b. This permit does not grant any property rights or exclusive privileges.
  - c. This permit does not authorize any injury to the property or rights of others.
  - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
  - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
  - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or behalf of the United States in the public interest.
  - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
  - d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

\_\_\_\_\_

(PERMITTEE)

\_\_\_\_\_

(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

\_\_\_\_\_

(DISTRICT ENGINEER)

\_\_\_\_\_

(DATE)

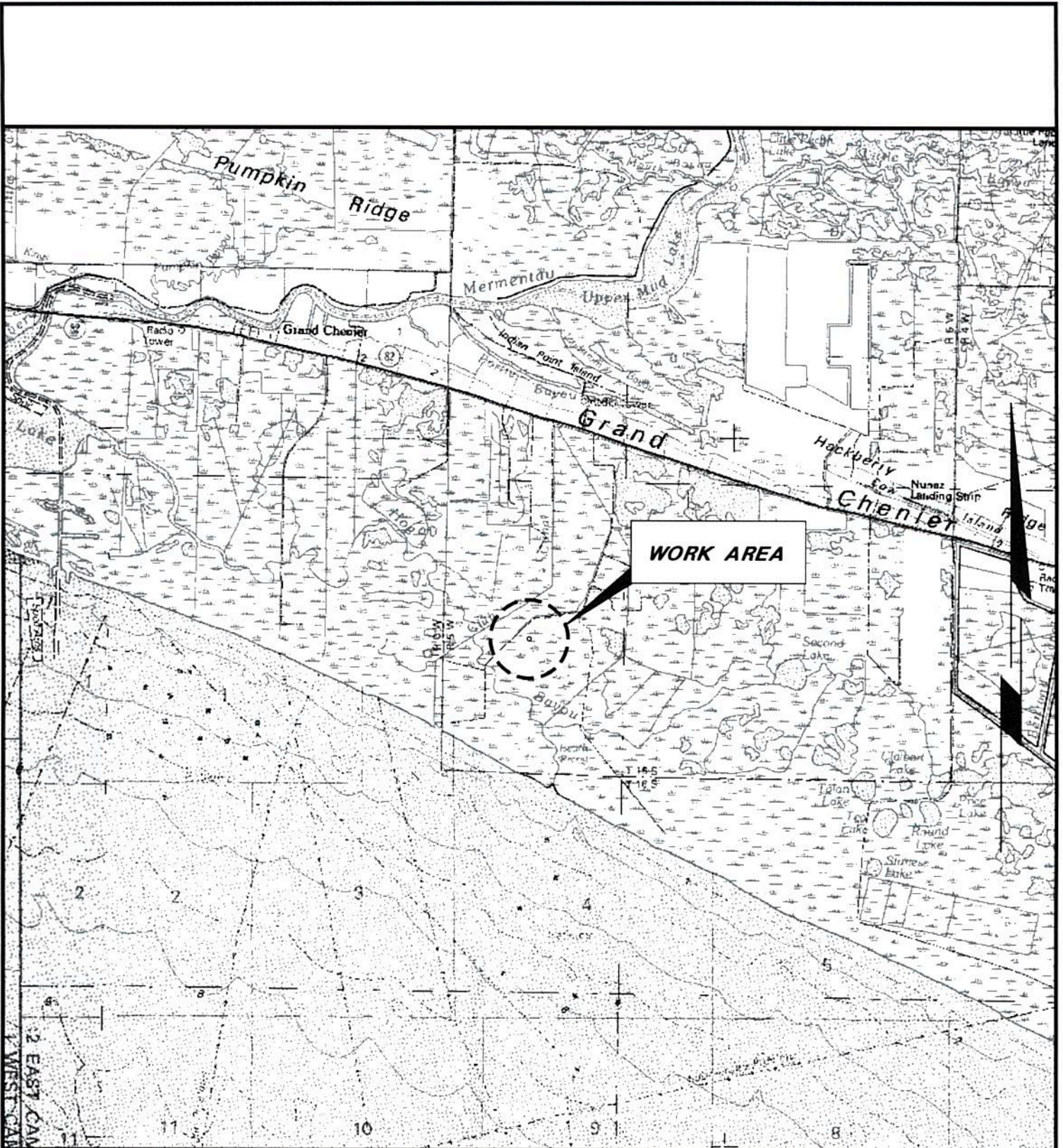
When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

\_\_\_\_\_

(TRANSFEREE)

\_\_\_\_\_

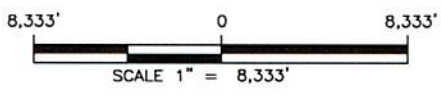
(DATE)



**WORK AREA**

**VICINITY MAP**

REPRODUCED FROM USGS "WHITE LAKE" 1 : 100,000 QUAD.



**PROPOSED WELL LOCATION**  
**CRAB LAKE AREA**  
 CAMERON PARISH, LOUISIANA

REVISIONS:

M.H.W. = 2.0'  
M.L.W. = 0.5'

R 5 W

T

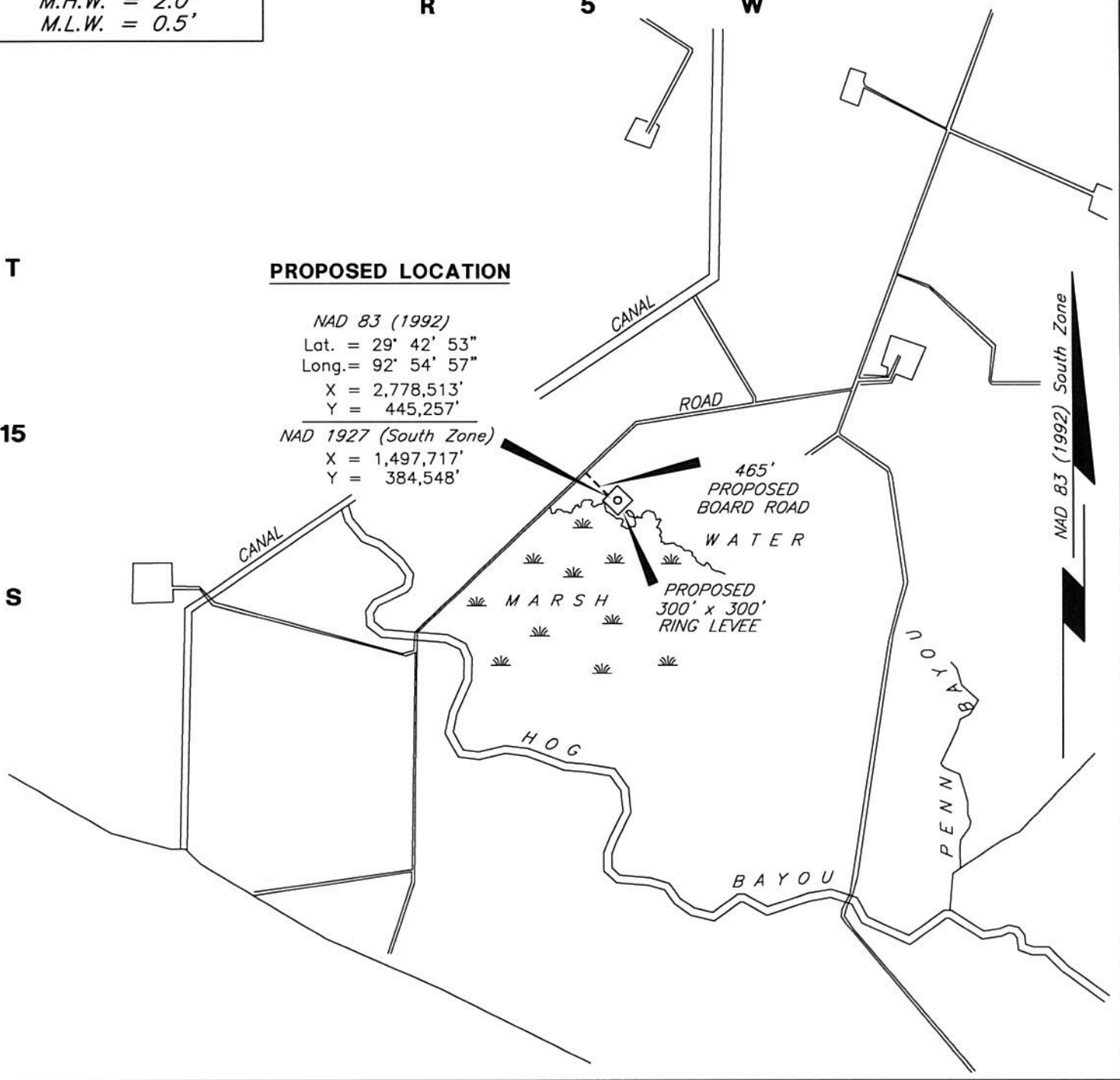
**PROPOSED LOCATION**

NAD 83 (1992)  
Lat. = 29° 42' 53"  
Long. = 92° 54' 57"  
X = 2,778,513'  
Y = 445,257'

NAD 1927 (South Zone)  
X = 1,497,717'  
Y = 384,548'

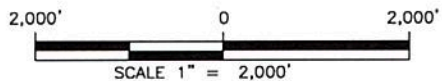
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**LOCATION MAP**

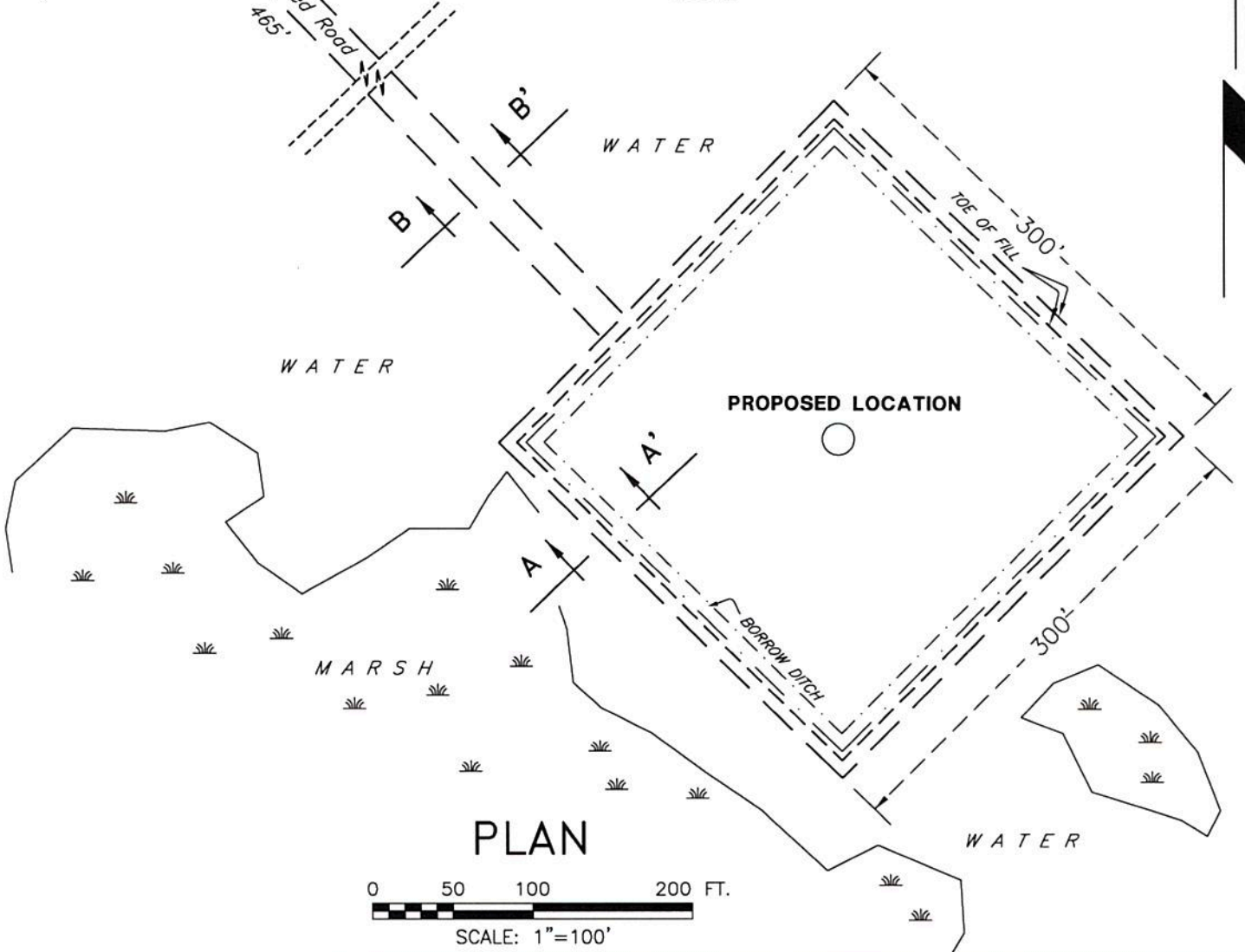
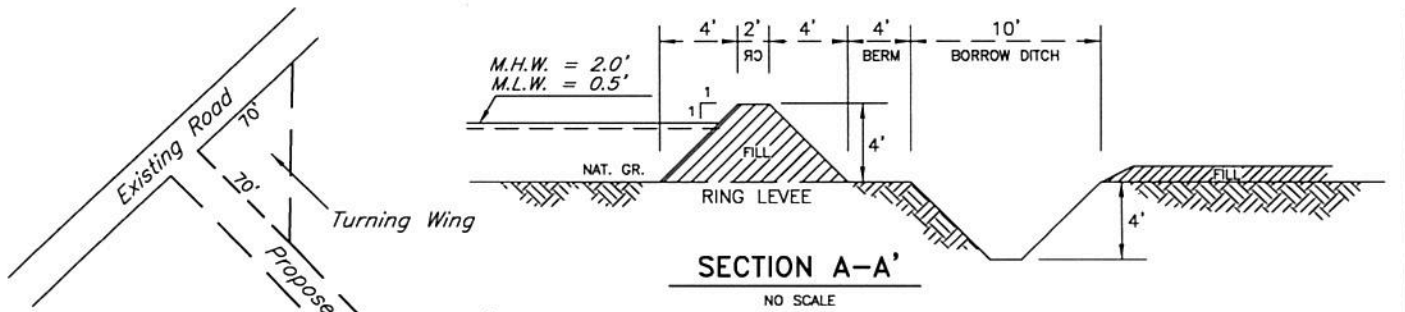
REPRODUCED FROM USGS "HOG BAYOU" 7.5' QUAD.



**PROPOSED WELL LOCATION**

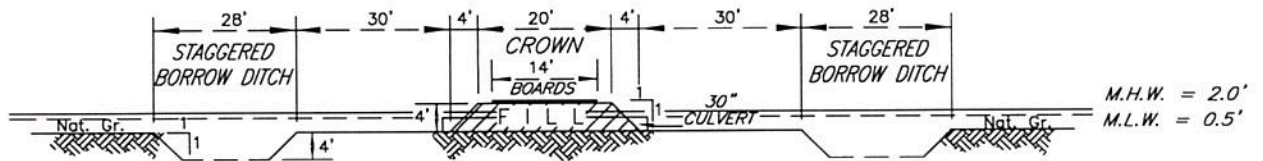
**CRAB LAKE AREA**  
CAMERON PARISH, LOUISIANA





TYPICAL RING LEVEE

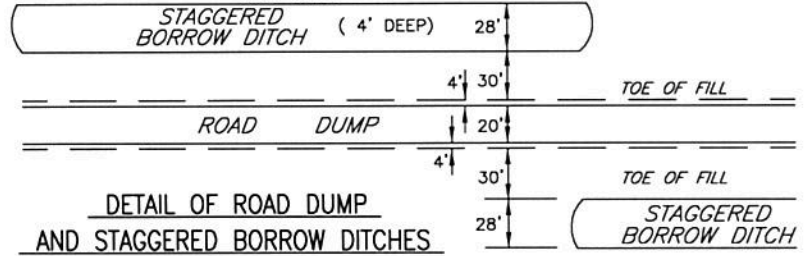
PROPOSED WELL LOCATION  
CRAB LAKE AREA  
CAMERON PARISH, LOUISIANA



### CROSS SECTION B-B' (ROAD DUMP)

NO SCALE

300' LONG



Proposed Board Road



#### TYPICAL CULVERT CROSS SECTION

NO SCALE

#### NOTES:

- 1.) Approximately 889 cubic yards of excavation required for ring levee.
- 2.) Approximately 1,947 cubic yards of excavation required for road dump.
- 3.) No additional fill material is anticipated, but if required, approximately 3,756 cubic yards of fill would be hauled in for the drill pad from an upland site. If such fill is used, the fill would be pre-tested to meet 29-B specifications.
- 4.) Culverts to be placed at maximum intervals of 250' and at all water crossings.
- 5.) All produced waters from drilling or production operations shall be held in closed storage tanks until they can be reinjected on site or transported to a state approved reinjection well.
- 6.) A containerized system shall be used for drilling fluids, or cuttings associated with drilling fluids. Cuttings will be disposed of at a state approved facility.
- 7.) As-built drawings will be submitted within 30 days of completion of this project to the Louisiana Department of Natural Resources, Office of Conservation, Pipeline Division, P. O. Box 94275, Baton Rouge LA 70804, and to the Louisiana Department of Natural Resources, Coastal Management Division, P. O. Box 44487, Baton Rouge, LA 70804-4487.
- 8.) All structures, facilities, wells and pipelines/flowlines shall be removed within 120 days of abandonment of the facilities for the herein permitted use.
- 9.) In order to ensure the safety of all parties, the permittee shall contact Louisiana One Call at 1-800-272-3020 a minimum of 48 hours prior to the commencement of any excavation (digging, dredging, jetting, etc.) or demolition activity.

## PROPOSED WELL LOCATION

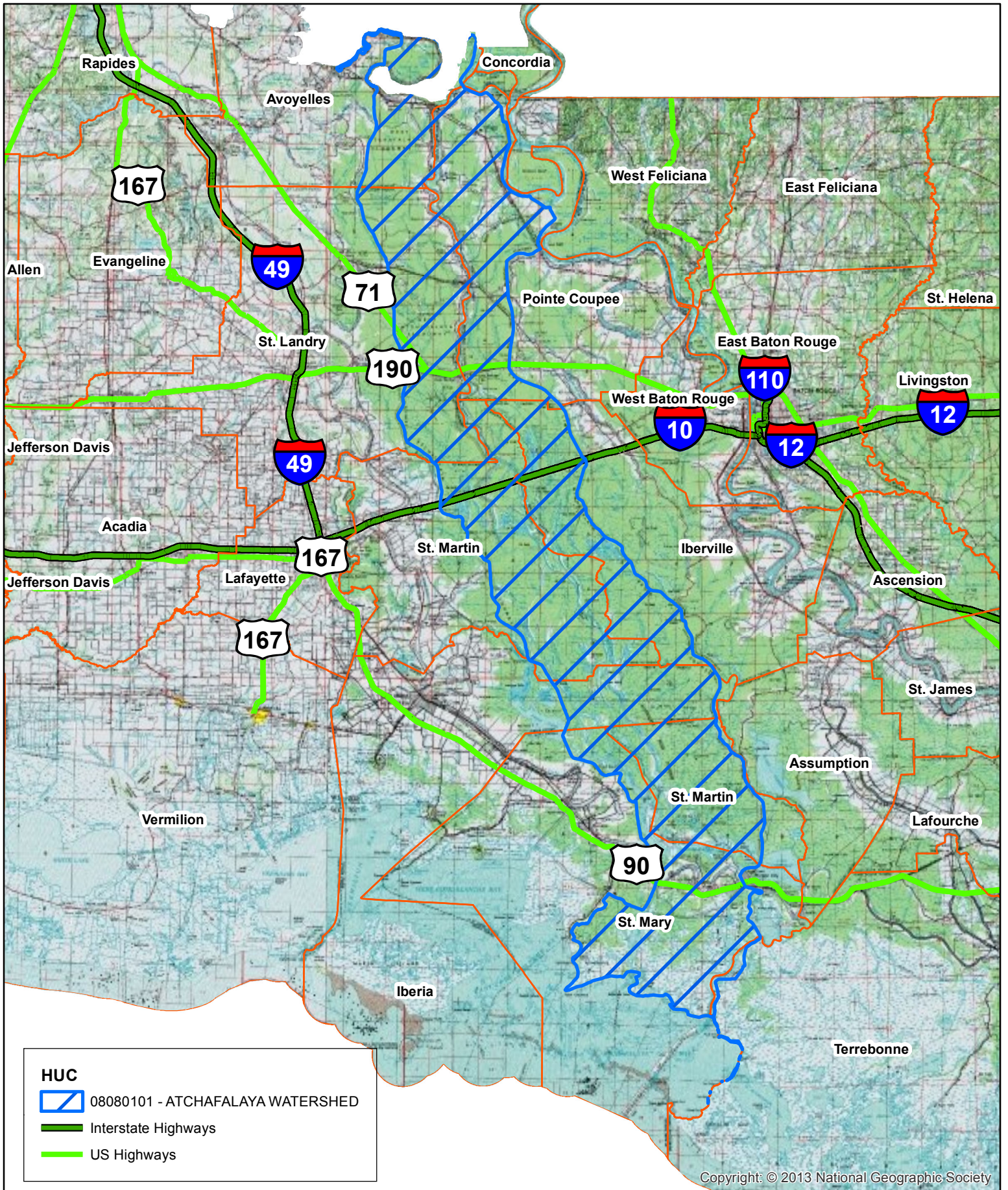
### CRAB LAKE AREA

CAMERON PARISH, LOUISIANA



**CEMVN - NEW ORLEANS DISTRICT BOUNDARY MAP  
FIGURE 1**





**ATCHAFALAYA BASIN HUC MAP  
 FIGURE 2**

