Storm Water Pollution Prevention Plan (SWPPP)

Permit Number: LAR_____

Prepared For:

XYZ Company
ABC Subdivision Unit #__

Development Location:

_____
Caddo/Bossier Parish, Louisiana

Initial Date Prepared:

_____, 2006

The following sample SWP3 is provided as a guide for use in preparation of a SWP3.Providing this guidance does not certify that the information is complete or complies with all requirements of the LPDES Storm Water Construction General Permits LAR100000/LAR200000. Users should obtain a copy of the relevant permit for review and then adjust their SWP3 to their specific site and construction activities. The preparers and providers of this guidance expressly disclaims any responsibility for any damages arising from the use, application or reliance on the information contained herein.

CERTIFICATIONS

To Be Completed by Residential Home Builder for Permit LAR100000

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I also certify that a storm water pollution prevention plan, including both construction and post construction controls, has been prepared for the site in accordance with the permit and that such plan complies with approved State, Tribal and/or local sediment and erosion plans or permits and/or storm water management plans or permits. I am aware that signature and submittal of the NOI is deemed to constitute my determination of eligibility under one or more of the requirements of Permit Part I.A.3.e(1), related to the Endangered Species Act requirements. To the best of my knowledge, I further certify that such discharges and discharge related activities will not have an effect on properties listed or eligible for listing on the National Register of Historic Places under the National Historic Preservation Act, or are otherwise eligible for coverage under Part I.A.3.f of the permit. I am also aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name and Title	Telephone Number
Signature	Date

CERTIFICATIONS

To Be Completed by Residential Home Builder for Permit LAR200000

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for attesting to false information, including the possibility of fine and imprisonment for knowing violations."

Name and Title	Telephone Number
Signature	Date

SWPPP Revision Documentation Form

The certification above applies to anyone signing “off” on any change or modification to the SWPPP.

Number	Date	Company Representative’s Signature

CONTENTS

APPENDICES

1.0. CONTACT INFORMATION

Name: _____

Title: _____

Address: _____

_____

Telephone No.: ( ) _____

2.0 OBJECTIVE

Storm water pollution prevention plan must be prepared for storm water discharges that will reach Waters of Louisiana, including discharges to the Municipal Separate Storm Sewer System (MS4), and to identify and address potential sources of pollution that are reasonably expected to affect the quality of discharges from the construction site, including off-site material storage areas, overburden and stockpiles of dirt, borrow areas, equipment staging areas, vehicle repair areas, fueling areas, etc., used by the permitted project. The SWP3 must describe and ensure the implementation of practices that will be used to reduce the pollutants in storm water discharges associated with construction activity at the construction site and assure compliance with the terms and conditions of the general permit.

3.0 Non-Storm Water Discharges

The following non-storm water discharges are authorized for discharge under the LPDES storm water construction general permits LAR100000 and/or LAR200000:

- discharges from fire fighting activities;
- fire hydrant flushings;
- waters used to wash vehicles where detergents are not used;
- waters used to control dust in accordance with LAR 100000 Part IV.D.2.c.(2) and/or LAR 200000 Part III.D.2.c.(2);
- potable water sources including waterline flushings;
- routine external building washdown which does not use detergents;
- pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used.
- air conditioning condensate; uncontaminated groundwater or spring water;

- foundation or footing drains where flows are not contaminated with process materials such as solvents;
- uncontaminated excavation dewatering; and
- landscape irrigation

4.0 SWP3 REVIEW AND AMMENDMENTS

4.1 Review

This SWP3 must be retained on-site at the construction site or, if the site is inactive or does not have an on-site location to store the plan, a notice must be posted describing the location of the SWP3. This SWP3 must be made readily available at the time of an on-site inspection.

4.2 Amendments

This SWP3 will be revised or updated when the following occurs:

1. Change in design, construction, operation, or maintenance that has a significant effect on the discharge of pollutants and that has not been previously addressed in this SWP3.

1. Results of inspections or investigations indicating this SWP3 is proving ineffective in eliminating or significantly minimizing pollutants in discharges authorized under the general permit.

2. To identify any new contractor and/or subcontractor that will implement a measure of the SWP3.

All other permittees implementing portions of the SWP3 that will be impacted by a change to the SWP3 will be notified of the change in a timely fashion.

The revisions to the SWP3 will be documented on the “SWPPP Revision Documentation Form” found in the front of this document. The authorized representative with regulatory authority (corporate officer or proprietor) to approve the SWPPP shall sign the modified plan certifying that the SWPPP revision information is true and accurate.

5.0 SITE OR PROJECT DESCRIPTION

5.1 Nature of Construction Activity

The residential homes being built within this subdivision is by way of traditional “stick” construction. After lots are purchased from the developer, this process generally involves the clearing, grading, and filling on each lot prior to a concrete slab being poured. During the house construction, ground disturbing activities such as running utilities (plumbing and electrical service), pouring driveways and walks, and final grading are conducted.

A description of the construction to be conducted on each lot is included on the General Description Sheet found in the “Individual Lot Information” section of the appendix.

General Description Sheet

Lot Number: _____

Address: _____

Lot Size: _____

Amount of Disturbed Area: _____

Description of Construction Activity: _____

_____

_____

_____

_____

_____

_____

5.2 Construction Activity with Potential Pollutants and Sources

The following lists the construction activities or materials that have the potential to contribute pollutants, including sediment, to storm water runoff. Building on the different lots within this development will involve the same ground/soil disturbing activities at each site. If a different or additional activity is required on a specific lot, it will be described in the "Individual Lot Information" section of this plan.

Construction Activity and/or Material	Potential Pollutant
• Land clearing	• Sediment – Total Suspended Solids (TSS), turbidity, oil and grease, Total Petroleum Hydrocarbons (TPH)
• Excavation	• Sediment – TSS, turbidity, oil and grease, TPH
• Filling	• Sediment – TSS, turbidity, oil and grease, TPH
• Paving	• Sediment – TSS, turbidity, oil and grease, TPH, pH
• Install foundations, retaining walls, etc	• Sediment – TSS, turbidity, oil and grease, TPH, pH
• Grading	• Sediment – TSS, turbidity, oil and grease, TPH
• Utilities	• Sediment – TSS, turbidity, oil and grease, TPH
•	•
•	•

5.3 Major Activities Schedule

The following schedule sheet is filled out and retained with the SWP3 for each lot within the subdivision. It is an intended schedule or sequence of major activities that will disturb the soil for major portions of the site. A schedule sheet for each lot may be found in the appendix of this document under "Individual Lot Information".

Schedule Sheet for Soil Disturbing Activities

Lot #: _____

Address: _____

Estimate Construction Start Date: _____

Estimate Construction End Date: _____

Activity	Estimated Time	Actual Time
Land clearing		
Excavation		
Filling		
Paving		
Install foundations, retaining walls, etc		
Grading		
Utilities		

5.4 Property Acreage

The total area of each lot and the total disturbed area of each lot are listed on the "General Description Sheet" in the appendix of this document under the "Individual Lot Information" section.

5.5 Construction Activity Acreage

The total number of acres of construction activities, material storage areas, stockpiles, and borrows areas are listed below:

Activity or Material	Acres
Construction Activities (resulting in land disturbance)	
Off-site Material Storage Areas	
Overburden and Stockpiles of Dirt	
Borrow Areas	

5.6 Soil Data

Soil data for each lot is listed on a "Soil Data Sheet" that is included in the appendix under "Individual Lot Information". This information includes pre-construction and post-construction runoff coefficient as well as a description of the soil type.

Soil Data Sheet

Lot Number: _____

Address: _____

Pre-construction runoff coefficient: _____

Post-construction runoff coefficient: _____

Runoff Coefficient:

High: 70-100% impervious (example: asphalt, buildings, paved surfaces)
Medium: 40-70% impervious (example: packed soils)
Low: 0-40% impervious (example: grassy areas)

Description of soil type: _____

_____

_____

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_____

5.7 General Location Map and Site Map

The general location map found in Appendix A shows the location of the subdivision. Included in Appendix A is a general site map of the subdivision or subdivision unit that shows the location of each individual lot addressed by this SWP3 plan.

5.8 Erosion and Sediment Control Site Map

The site map includes the following (For individual lot Erosion and Sediment Control Site Map see “Individual Lot Information” section of the appendix):

- Drainage patterns and approximate slopes anticipated after major grading activities.
- Areas where soil disturbance will occur and where soil will not be disturbed.
- Locations of all major structural and non-structural controls either planned or in place.
- Locations where stabilization practices are expected to be used.
- Locations of off-site material, waste, borrow, fill, or equipment storage areas.
- Surface waters (i.e. creeks, streams, or ponds including wetlands) either adjacent or in close proximity of site.
- Locations where storm water discharges from the site.

5.9 Industrial Discharges

This project does not involve any discharges associated with industrial activities other than residential construction activities. There are no dedicated concrete or asphalt plants associated with this project.

5.10 Receiving Waters

The receiving waters at or near the site that will be disturbed or that will receive discharges from disturbed areas of the project is listed on the General Description Sheet included in the “Individual Lot Information” section of the appendix.

5.11 LPDES Construction General Permit, LAR100000/LAR200000

A copy of the LPDES Construction General Permit, LAR100000/LAR200000 (whichever is applicable), is included in Appendix C.

5.12 Threatened and/or Endangered Species

No threatened or endangered species nor any habitat critical to a threatened or endangered species will be impacted as a result of construction within this development. This determination was made by the developer in consultation with the US Fish and Wildlife office. See Appendix D for a copy of the letter of no objection to the development.

5.13 Historical Determination

Construction within this development does not affect any properties listed on or eligible to be listed on the National Historic Register or other important and significant historical site as determined by the developer in consultation with the State Historic Preservation Officer (SHPO). See Appendix E for a copy of the letter of no objection to the development.

5.14 Total Maximum Daily Loading (TMDL)

Currently, there is no TMDL established for the receiving stream that would regulate potential pollutants from the construction site.

6.0 EROSION AND SEDIMENT CONTROLS

6.1 Erosion and Sediment Control Requirements

- Retain sediment on-site to the extent practicable with consideration for local topography, soil type, and rainfall.
- Design and utilize controls to reduce offsite transport of sediments and other pollutants if it is necessary to pump or channel standing water from the site.
- Select, install, and maintain control measures according to the manufacturer or designer’s specifications.
- Remove sediment from sediment traps and sedimentation ponds no later than the time that design capacity has been reduced by 50%.
- Remove sediment accumulations if sediment escapes the site at a frequency to minimize further negative effects and, whenever feasible, prior to the next storm event.
- Develop controls to limit, to the extent practicable, offsite transport of litter, construction debris, and construction materials.
- Control construction chemicals from becoming a pollutant source.

5.2 Site Erosion and Sediment Controls

The erosion and sediment control methods used is listed in the "Erosion and Sediment Control Plan" developed for each lot. The plan for each lot is found in the "Individual Lot Information" section of the appendix.

7.0 STABILIZATION PRACTICES

7.1 Stabilization Practice Requirements

Practices may include but are not limited to establishment of temporary vegetation, establishment of permanent vegetation, mulching, geo-textiles, sod stabilization, vegetative buffer strips, protection of existing trees and vegetation, and other similar measures.

Stabilization measures will be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, except for the provisions below which must be initiated no more than fourteen (14) days after the construction activity in that portion of the site has temporarily or permanently ceased:

a. Where the initiation of stabilization measures by the fourteenth (14th) day after construction activity temporarily or permanently ceased is precluded by snow cover, frozen ground conditions, or due to drought conditions, stabilization measures must be initiated as soon as practicable.

b. Where construction activity on a portion of the site is temporarily ceased, and earth-disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures do not have to be initiated on that portion of site.

For individual lots in residential construction, final stabilization is completed by the homebuilder or the homebuilder has established temporary stabilization including perimeter controls for an individual lot prior to occupation of the home by the homeowner and informing the homeowner of the need for, and benefits of final stabilization.

7.2 Site Interim and Permanent Stabilization Practices

The following types of interim and permanent stabilization practices may be used on site as required based on the particular characteristics of each lot. The stabilization practice selected for

each lot will be indicated in the Site Erosion and Sediment Control Plan for that lot (See Individual Lot Information in the appendix):

- establish permanent vegetation
- mulching
- temporary vegetation
- geo-textiles
- sod stabilization
- vegetative buffer strips
- protect of existing vegetation

7.1 Stabilization Practice Schedule

The stabilization practices implemented will be recorded on the "Stabilization Practice Schedule" found in the "Individual Lot Information" section in the appendix. If construction activities temporarily or permanently cease on a lot, then it will be noted in the Stabilization Practice Schedule for that lot.

Stabilization Practice Schedule

Lot Number: _____

Address: _____

Stabilization Practices	Location	Time Frame*

* Time Frame: Includes dates of major grading activities, dates when construction activities temporarily or permanently ceases on a portion of the site, date when stabilization measures are initiated.

8.0 STRUCTURAL CONTROLS

8.1 Structural Control Requirements

Sediment basins are required, where feasible, for common drainage locations that serve an area with ten (10) or more acres disturbed at one time. A temporary (or permanent) sediment basin that provides storage for a calculated volume of runoff from a 2-year, 24-hour storm from each disturbed acre drained, or equivalent control measures, shall be provided where attainable until final stabilization of the site.

Alternatively, a temporary (or permanent) sediment basin providing 3600 cubic feet of storage per acre drained may be provided, where rainfall data is not available or a calculation cannot be performed.

Sediment traps and sediment basins may also be used to control solids in storm water runoff for drainage locations serving less than ten (10) acres.

At a minimum, silt fences, vegetative buffer strips, or equivalent sediment controls are required for all down slope boundaries (and for those side slope boundaries deemed appropriate as dictated by individual site conditions) of the construction.

8.2 Site Structural Controls

The structural controls used on each lot are listed on the Structural Controls Sheet included in the Individual Lot Information Section of the appendix. These controls are used to divert flows away from exposed soils, to limit the contact of runoff with disturbed areas, or to lessen the off-site transport of eroded soils.

Structural Control Sheet

Lot Number: _____

Address: _____

Structural Control Selected	Rational

9.0 STORM WATER MANAGEMENT

The discussion of the technical basis used to select the practices to control pollution where flow exceeds predevelopment levels has been addressed by the developer (see developers SWP3). For residential construction on small subdivision lots, little flow reduction control is possible and is usually addressed by the developer when the subdivision is initially engineered.

If any permanent storm water controls (e.g. detention ponds, catch basin filter inserts, etc.) or velocity dissipation devices are installed during the construction process to control pollutants in storm water discharges and will remain in place after the completion of construction operations will be noted on the Structural Control Sheet found in the Individual Lot Information section of the appendix.

10.0 OTHER CONTROLS

10.1 Other Control Requirements

Minimize off-site tracking of sediments and generation of dust. Typical controls may include stabilized construction entrances, shoveling and sweeping, watering for dust control, etc.

All construction and waste materials that pose a potential pollutant source to the storm water runoff from the construction site will be stored in such a manner so as to prevent or minimize storm water contact.

Demonstrate that all applicable state and local regulations governing waste disposal, sanitary sewer or septic systems are being obeyed.

These construction sites within this subdivision will have the typical waste lumber, insulation, sheetrock, roofing, used paint supplies, etc. commonly found on a residential construction site. Either a roll off dumpster or wire fence containment will be provided for storing trash and rubbish until it can be properly disposed of. The dumpster or fence containment will be covered when not in use to prevent storm water from coming into contact with the trash and rubbish.

There are no concrete or asphalt plants, barrow pits, etc. associated with the building on these lots.

There are no controls required for endangered or threatened species or their habitat according to the documentation provided by the developer, nor is there any required by the State Historic Preservation Officer (SHPO) according to the documentation received from the developer.

10.2 Other Controls at the Site:

If any other controls will be used on a particular lot, it will be described on the Other Control Sheet found in the Individual Lot Information in the appendix.

Other Controls Sheet

Controls	Rationale
Dust -	Water as needed
Off-site Tracking -	Shoveling or sweeping as needed
Sewage -	Port-a-toilets for workers; POTW for residence
Construction Litter and Trash -	Covered dumpster to minimize waste materials contact with storm water

11.0 APPROVED LOCAL PLAN

The local requirements for an Erosion and Sediment Control Plan has been fulfilled and is included in the “Individual Lot Information” section of the appendix.

12.0 MAINTENANCE

All erosion and sediment control measures and other protective measures identified in this SWP3 must be maintained in effective operating condition. If through inspections the permittee determines that BMPs are not operating effectively, maintenance must be performed before the next anticipated storm event or as necessary to maintain the continued effectiveness of storm water controls. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable. Erosion and sediment controls that have been intentionally disabled, run-over, removed, or otherwise rendered ineffective must be replaced or corrected immediately upon discovery.

13. 0 INSPECTIONS OF CONTROLS

Inspections will be performed as indicated below.

Check which inspection schedule will be followed throughout the life of the project:

_____ Inspections of controls will occur once every seven (7) calendar days occurring on the same day of the week.

_____ At least once every 14 calendar days, before anticipated storm events (or series of storm events such as intermittent showers over one or more days) and within 24 hours of the end of a storm event of 0.5 inches or greater.

The inspection report for each lot will be reported using the Construction Site Inspection Report found in the Individual Lot Information section.

During these inspections, erosion and sediment control measures identified in the SWP3 shall be observed to ensure that they are operating correctly. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.

Based on the results of the inspection, the site description and pollution prevention measures in this plan shall be revised as appropriate, but in no

case later than seven calendar days following the inspection. Such modifications shall provide for timely implementation of any changes to the plan within seven calendar days following the inspection.

A report summarizing the scope of the inspection, name of personnel making the inspection, the date of the inspection, major observations relating to the implementation of the SWP3 (including if applicable the location(s) of discharges of sediment or other pollutants from the site and any control devise that failed to operate as designed or proved inadequate for a particular location), and actions taken shall be made and retained as part of the SWP3 for at least three years from the date that the site is finally stabilized. Such shall identify any incidents of non-compliance.

If the inspection indicates the site is in compliance (no non-compliance issues found), then the report shall certify that no non-compliance issues were found.

14.0 CONTRACTORS AND SUBCONTRACTORS RESPONSIBILITY

Each control measure implemented on a lot is identified along with the person responsible for implementing that measure in the Erosion and Sediment Control Plan found in the “Individual Lot Information” section of the appendix.

A list of contractors and subcontractors and the control measures their operations impact is listed in the “individual Lot Information” section of the appendix.

All contractors and subcontractors working on these lots are informed of the terms and conditions of the SWP3 and their obligation to follow the plan. In doing so, they agree not to perform their operations counter to the plan without first contacting the builder in order that the necessary adjustments to the SWP3 plan can be made to assure that pollutants are not discharged from the site in the storm water runoff.

15.0 UTILITY COMPANIES

The each control measures relating to the installation of utility service on each lot and party implementing the measure is listed in the “Erosion and Sediment Control Plan” found in the “Individual Lot Information” section in the appendix.

APPENDIX A

General Location Map

AND

Site Map

APPENDIX B

LPDES Construction General Permit
LAR100000/LAR200000

(*Whichever is applicable*)

APPENDIX C

Individual Lot Information

Content:

1. General Description Sheet
2. Schedule Sheet for Soil Disturbing Activities
3. Soil Data Sheet
4. Erosion and Sediment Control Site Map
5. Erosion and Sediment Control Plan
6. Stabilization Practice Schedule
7. Structural Control Sheet
8. Other Controls Sheet
9. Construction Site Inspection Report

APPENDIX D

Threatened and/or Endangered Species

APPENDIX E

Historical Determination

INSPECTION REPORT

Lot #: _____

Address: _____

Date: _____

Inspector/Title: _____

Erosion and Sediment Control Measure	Satisfactory Yes/No	Comments

Entrance(s): Clear of Mud, Dirt, Debris, or Tracking Yes _____, No _____

Corrective Action_____

Outfall Locations: BMPs are in place and working. Yes _____, No _____

Corrective Action_____

Disturbed Area(s): BMPs are in place and working. Yes _____, No _____

Corrective Action_____

Summary of Findings:

Non-Compliance Issues:

Site is in Compliance Yes _____ No _____

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I also certify that a storm water pollution prevention plan, including both construction and post construction controls, has been prepared for the site in accordance with the permit and that such plan complies with approved State, Tribal and/or local sediment and erosion plans or permits and/or storm water management plans or permits. I am aware that signature and submittal of the NOI is deemed to constitute my determination of eligibility under one or more of the requirements of Permit Part I.A.3.e(1), related to the Endangered Species Act requirements. To the best of my knowledge, I further certify that such discharges and discharge related activities will not have an effect on properties listed or eligible for listing on the National Register of Historic Places under the National Historic Preservation Act, or are otherwise eligible for coverage under Part I.A.3.f of the permit. I am also aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name and Title	Telephone Number
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