

**CONSTRUCTION  
STORM WATER POLLUTION  
PREVENTION PLAN**

FOR

D & J, LLC

**Crossland – Phase IV**  
Lamar County, Mississippi

**December 2023**

PREPARED BY:



**LANDMARK SURVEYING, LLC**

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## I. INTRODUCTION

The purpose of the Storm Water Pollution Prevention Plan (SWPPP) is to provide a site-specific description of the best management practices to prevent contamination of the storm water with potential pollutants from construction activities related to the proposed project. The storm-water pollution prevention plan has been prepared as required by the Mississippi Department of Environmental Quality in compliance with the application regulations for coverage under the construction storm water general NPDES permit.

This storm water pollution prevention plan is to be incorporated into the routine construction activities at the development. The potential sources of pollution have been identified at the site and are described in this plan. Several pollution control measures are specified in the plan to prevent contamination of storm water runoff from those sources. The plan also outlines implementation, inspection, and maintenance requirements. The erosion and sediment control practices should be monitored and the plan revised if the quality of storm water runoff is not satisfactory.

## II. SITE ASSESSMENT

- A. Description of Work: The Owner intends to develop the project site in accordance with the Storm Water Pollution Prevention Plan drawings. The various activities related to the earthwork consist of stripping of topsoil, stockpiling of topsoil on-site, and the hauling and placement of earthen fill.
- B. Potential Pollution Sources: The most significant potential pollutants are soil particles subject to removal by storm water. Other potential pollutants subject to removal by storm water are spilled fuel and lubricants. Material may also be inadvertently tracked off-site or blown off-site when distributed by hauling equipment.
- C. Non-Storm Water Discharges: Potential non-storm water discharges consist of irrigation water and watering of the haul roads to control dust. Due to the permeability of the soil and the arid conditions when this activity is required, no significant impact is anticipated from these sources.
- D. Non-Storm Water Solid Materials: The on-site generation of solid materials will be minimal, and its proper disposal will be closely monitored. All solid waste will be taken off-site for proper disposal.
- E. Drainage Patterns: The existing site primarily drains to the south and east as shown on the attached drawing.
- F. Receiving Waters: The storm water runoff from this site ultimately drains into the tributary noted on the Construction Notice of Intent (CNOI).

### III. BEST MANAGEMENT PRACTICES

- A. General: In order to prevent contamination of storm water by the potential pollutants previously discussed, uncontaminated storm water is diverted away from disturbed areas by the use of diversions and grassed waterways with silt fence and hay bales to retain silt in storm water. These practices shall be installed in accordance with the details provided and located at periodic intervals. Topsoil stockpiled shall be vegetated at the specified rates. All disturbed areas shall be grassed, and existing vegetation on undisturbed areas shall be maintained as long as possible.

Hay bale dikes and silt fences shall be used when necessary to stabilize slopes and protect roadway ditch from erosion during the establishment of permanent vegetation on reclaimed areas.

See Appendix A for seed, fertilizer, and mulching rates.

- B. Design: The diversions or typical roadway ditches shall be constructed at a grade not greater than 5 percent. The diversions shall be constructed with three to one side slopes and have a two-foot minimum height. If conditions warrant in areas where storm water run-off is expected to have high energy levels (i.e., pipe culvert outlets), rip-rap may be required to prevent erosion.

The storm water, which leaves the site, shall meet the non-numeric limitations of being free from the following:

- oil, scum, debris, and other floating materials; eroded soils and other materials that will settle out of the storm water to form objectionable deposits in receiving waters;
- suspended solids, turbidity, and color levels inconsistent with the receiving waters; and
- chemicals in concentrations what would cause violations of the State Water Quality Criteria in the receiving waters.

- C. Practices Subsequent to Purchase of Lots (Subdivisions Only): As part of the purchasing contract, lot purchasers shall agree to and assume the responsibility of maintaining adequate erosion control measures commencing at the time of the purchase. Purchasers of individual lots shall be required to maintain their property in a manner to minimize off-site damage from erosion, sediment deposits and storm water. This shall be required from the beginning of site preparation and continued throughout the establishment of a permanent vegetative cover.

- D. Spill Prevention and Response Procedures: At the present time there are no fuel storage tanks at this site. However, if in the future tanks are placed on the site, there should be a dike constructed around the fuel storage tanks in order to contain any accidental spillage. The name and number of a competent hazardous waste disposal contractor shall be posted in the office for use in the event of a

spill. The site shall be kept free from the accumulation of solid waste and other good housekeeping procedures implemented.

- E. Operation and Maintenance: The best management practices once implemented must be maintained to ensure that satisfactory operation continues. The sediment traps and diversions should routinely have excess sediment removed. This may be required following each major storm event. This material should be stockpiled and protected from possible re-entry into the storm water until it can be used. Diversions require frequent inspection to ensure that traffic has not worn them down or that funneling waters have not washed them out. Vegetative growth on diversions must be checked frequently and action taken if the growth rate is not satisfactory.

The vegetative practices should be fertilized at one half the initial rates at the beginning of the second growing season. Eroded areas should be shaped, smoothed, and replanted at this time. Where practical, grassed areas should be clipped once annually. Hay bales shall be replaced once they have begun to deteriorate and sediment shall be removed once it has begun to accumulate.

- F. Housekeeping Practices: The owner or prime contractor shall describe and list practices appropriate to prevent pollutants from entering storm water from construction sites because of poor housekeeping. The owner or prime contractor shall designate areas for equipment maintenance and repair; concrete chute wash off; provide waste receptacles at convenient locations and provide for the regular collection of waste; provide protected storage areas for chemicals, paints, solvents, fertilizers, and other potentially toxic materials; and provide adequately maintained sanitary facilities.

- G. Implementation Sequence: The owner or prime contractor shall prepare an orderly listing which coordinates the timing of all major land-disturbing activities together with the necessary erosion and sedimentation control measures planned for the project. The Implementation Sequence is described below:

- I. Construction access. Includes construction entrance, construction routes, and equipment parking area. At the time of the first land-disturbing activity, stabilize bare areas immediately with gravel and temporary vegetation as construction takes place.
- II. Sediment traps and barriers. Install sediment fences, straw bale barriers, and outlet protection. Install principal basins after construction site is accessed. Install additional traps and barriers as needed during grading.
- III. Runoff Control. Includes diversions, water bars, and outlet protection. Install key practices after principal sediment traps and before land grading. Install additional runoff-control measures during grading.

Runoff conveyance system. Stabilize stream banks, storm drains, channels, inlet and outlet protection, slope drains. Where necessary, stabilize stream banks as early as possible. Install principal runoff conveyance with runoff-control measure. Install remainder of system after grading.

III. Land Clearing and Grading. Includes site preparation, cutting, filling, grading, sediment basins, barriers, diversions, drains, surface roughening. Begin major clearing and grading after principal sediment and key runoff-control measure are installed. Clear borrow and disposal areas only as needed. Install additional control measures as grading progresses. Mark trees and buffer areas for preservation. Don't allow equipment or personnel within drip line of marked trees.

IV. Surface stabilization. Includes temporary and permanent seeding, mulching, sodding, riprap. Apply temporary or permanent stabilization measure immediately on all disturbed areas where work is delayed or complete.

V. Building construction. Construct buildings, utilities, and paving. Install necessary erosion and sedimentation control practices as work takes place.

VI. Landscaping and final stabilization. Install topsoil, trees, shrubs, permanent seeding, mulching, sodding, riprap. This is the last construction phase. Stabilize all open areas, including borrow and spoil areas. Remove and stabilize all temporary control measures.

H. Record Keeping: Records shall be retained for three years of all maintenance activities, spills, and inspections, including a description of the quality and quantity of storm water.

I. Employee Training: A staff meeting shall be held for the purpose of discussing the Storm Water Pollution Prevention Plan's components and goals.

#### IV. IMPLEMENTATION SCHEDULE

A. Structural Measures: The non-existing structural measures shall be installed as the weather permits, and the existing measures shall be re-conditioned as well.

B. Vegetative Measures: Vegetative plantings will be performed in accordance with the included planting schedule. Structural measures shall be grassed during the first open planting season after completion. Construction should be scheduled in order that un-vegetated exposure is minimized.

## V. INSPECTIONS AND REPORTING

A. Inspections: Inspections of the best management practices and other storm water pollution prevention plan requirements shall be performed by the contractor or owner as follows:

1. At least once weekly.
2. Within 24 hours after rainfall events of a half-inch or more.
3. As often as necessary to ensure that appropriate erosion and sediment controls have been properly constructed and maintained.

B. Reporting: The owner and/or contractor must inspect, as described in above section, and maintain controls and keep all reports on file noting damages or deficiencies and corrective measures, using the form provided in the appendix of this plan.

No reports shall be submitted to the Mississippi Department of Environmental Quality unless specifically requested. As previously stated, all records, reports, and information resulting from activities required by this plan and your permit should be retained for at least three years from the date of the CNOI, inspection or report.

A rain gauge should be placed in a central location on the site and used to obtain rainfall amounts. This information will be needed for proper completion of the inspection report.

## VI. REVISIONS

The storm water prevention plan will be kept current by the company representative and will be revised as changes in site conditions warrant. The company representative may notify the SWPPP developer for assistance when necessary. Factors that would compel the SWPPP to be modified include:

- Inadequacies revealed by routine inspections;
- Changes in identified sources, non-storm water discharges, or non-storm water solid wastes; or
- MDEQ or local agency notification that the plan does not meet one or more of the minimum requirements.

A plan revision will be completed within 30 days of the date is determined that a revision is warranted. If the modification is in response to a request by the MDEQ, the permittee must submit to the MDEQ certification that the requested changes have been made.

**APPENDIX A**

**CONSTRUCTION NOTICE OF INTENT AND NPDES PERMIT**

Coverage #:  
MSR109159

AI: 14437



Rec'd via email:  
12/12/2023

# LARGE CONSTRUCTION NOTICE OF INTENT (LCNOI) FOR COVERAGE UNDER THE LARGE CONSTRUCTION STORM WATER GENERAL NPDES PERMIT MSR10 **9159**

(NUMBER TO BE ASSIGNED BY STATE)

## INSTRUCTIONS

The Large Construction Notice of Intent (LCNOI) is for coverage under the Large Construction General Permit for land disturbing activities of five (5) acres or greater; or for land disturbing activities, which are part of a larger common plan of development or sale that are initially less than five (5) acres but will ultimately disturb five (5) or more acres. Applicant must be the owner or operator. For construction activities, the operator is typically the prime contractor. The owner(s) of the property and the prime contractor associated with regulated construction activity on the property have joint and several responsibility for compliance with the Large Construction Storm Water General Permit MSR10.

Completed LCNOIs should be filed at least thirty (30) days prior to the commencement of construction. Discharge of storm water from large construction activities without written notification of coverage is a violation of state law.

Submittals with this LCNOI must include:

- A site-specific Storm Water Pollution Prevention Plan (SWPPP) developed in accordance with ACT5 of the General Permit
- A detailed site-specific scaled drawing showing the property layout and the features outlined in ACT5 of the General Permit
- A United States Geological Survey (USGS) quadrangle map or photocopy, extending at least one-half mile beyond the facility property boundaries with the site location and outfalls outlined or highlighted. The name of the quadrangle map must be shown on all copies. Quadrangle maps can be obtained from the MDEQ, Office of Geology at 601-961-5523.

Additional submittals may include the following, if applicable:

- Appropriate Section 404 documentation from U.S. Army Corps of Engineers
- Appropriate documentation concerning future disposal of sanitary sewage and sewage collection system construction
- Appropriate documentation from the MDEQ Office of Land & Water concerning dam construction and low flow requirements
- Approval from County Utility Authority in Hancock, Harrison, Jackson, Pearl River and Stone Counties

ALL QUESTIONS MUST BE ANSWERED (Answer "NA" if the question is not applicable)

APPLICANT IS THE:       OWNER     PRIME CONTRACTOR    (Must check one or both)

## OWNER INFORMATION

OWNER CONTACT PERSON: Dennis Pierce

OWNER COMPANY NAME: D & J, LLC

OWNER STREET OR P.O. BOX: 23 Liberty Place

OWNER CITY: Hattiesburg STATE: MS ZIP: 39402

OWNER PHONE # (INCLUDE AREA CODE): (601) 264-6800

## PRIME CONTRACTOR INFORMATION

PRIME CONTRACTOR CONTACT PERSON: \_\_\_\_\_

PRIME CONTRACTOR COMPANY: \_\_\_\_\_

PRIME CONTRACTOR STREET OR P.O. BOX: \_\_\_\_\_

PRIME CONTRACTOR CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

PRIME CONTRACTOR PHONE # (INCLUDE AREA CODE): \_\_\_\_\_

**PROJECT INFORMATION**

**PROJECT NAME:** Crossland Subdivision, Phase 4

**TOTAL ACREAGE THAT WILL BE DISTURBED** <sup>1</sup>: Approximately 24 acres

**IS THIS PART OF A LARGER COMMON PLAN OF DEVELOPMENT?**  YES  NO

**IF YES, NAME OF LARGER COMMON PLAN OF DEVELOPMENT:** N/A

**AND PERMIT COVERAGE NUMBER:** \_\_\_\_\_

**DESCRIPTION OF CONSTRUCTION ACTIVITY:** Roadway, utility, and home construction for a subdivision

**PROPOSED DESCRIPTION OF PROPERTY USE AFTER CONSTRUCTION HAS BEEN COMPLETED (include standard industrial classification code (SIC) if known):**

Single family homes in a Subdivision

**SIC Code** 6 5 5 2

**PHYSICAL SITE ADDRESS (If the physical address is not available indicate the nearest named road. For linear projects, indicate the beginning of the project and identify all counties the project traverses.)**

**STREET:** Just north of 165 Latigo Loop

**CITY:** Sumrall **COUNTY:** Lamar County **ZIP:** 39482

**LATITUDE :** 31 degrees 23 minutes 51 seconds **LONGITUDE:** 89 degrees 32 minutes 11 seconds

**LAT & LONG DATA SOURCE (GPS (Please GPS Project Entrance/Start Point) or Map Interpolation):** Google Earth

**NEAREST NAMED RECEIVING STREAM:** Tick Creek

**IS RECEIVING STREAM ON MISSISSIPPI'S 303(d) LIST OF IMPAIRED WATER BODIES?** (The 303(d) list of impaired waters and TMDL stream segments may be found on MDEQ's web site: [http://www.deq.state.ms.us/MDEQ.nsf/page/TWB\\_Total\\_Maximum\\_Daily\\_Load\\_Section](http://www.deq.state.ms.us/MDEQ.nsf/page/TWB_Total_Maximum_Daily_Load_Section))  YES  NO

**HAS A TMDL BEEN ESTABLISHED FOR THE RECEIVING STREAM SEGMENT?**  YES  NO

**ARE THERE RECREATIONAL STREAMS, PRIVATE/PUBLIC PONDS OR LAKES WITHIN 1/2 MILE DOWNSTREAM OF PROJECT BOUNDRY THAT MAY BE IMPACTED BY THE CONSTRUCTION ACTIVITY?**  YES  NO

**EXISTING DATA DESCRIBING THE SOIL (for linear projects please describe in SWPPP):** sandy loam

**WILL FLOCCULANTS BE USED TO TREAT TURBIDITY IN STORM WATER?**  YES  NO

**IF YES, INDICATE THE TYPE OF FLOCCULANT.**  ANIONIC POLYACRYLIMIDE (PAM)  OTHER \_\_\_\_\_

**IF YES, DOES THE SWPPP DESCRIBE THE METHOD OF INTRODUCTION, THE LOCATION OF INTRODUCTION AND THE LOCATION OF WHERE FLOCCULATED MATERIAL WILL SETTLE?**  YES  NO

<sup>1</sup>Acreage for subdivision development includes areas disturbed by construction of roads, utilities and drainage. Additionally, a housesite of at least 10,000 ft<sup>2</sup> per lot (entire lot, if smaller) shall be included in calculating acreage disturbed.

# DOCUMENTATION OF COMPLIANCE WITH OTHER REGULATIONS/REQUIREMENTS

COVERAGE UNDER THIS PERMIT WILL NOT BE GRANTED UNTIL ALL OTHER REQUIRED MDEQ PERMITS AND APPROVALS ARE SATISFACTORILY ADDRESSED

IS LCNOI FOR A FACILITY THAT WILL REQUIRE OTHER PERMITS?  YES  NO

IF YES, CHECK ALL THAT APPLY:  AIR  HAZARDOUS WASTE  PRETREATMENT  
 WATER STATE OPERATING  INDIVIDUAL NPDES  OTHER: \_\_\_\_\_

IS THE PROJECT REROUTING, FILLING OR CROSSING A WATER CONVEYANCE OF ANY KIND? (If yes, contact the U.S. Army Corps of Engineers' Regulatory Branch for permitting requirements.)  YES  NO

IF THE PROJECT REQUIRES A CORPS OF ENGINEER SECTION 404 PERMIT, PROVIDE APPROPRIATE DOCUMENTATION THAT:

- The project has been approved by individual permit, or
- The work will be covered by a nationwide permit and NO NOTIFICATION to the Corps is required, or
- The work will be covered by a nationwide or general permit and NOTIFICATION to the Corps is required

IS A LAKE REQUIRING THE CONSTRUCTION OF A DAM BEING PROPOSED? (If yes, provide appropriate approval documentation from MDEQ Office of Land and Water, Dam Safety.)  YES  NO

IF THE PROJECT IS A SUBDIVISION OR A COMMERCIAL DEVELOPMENT, HOW WILL SANITARY SEWAGE BE DISPOSED? Check one of the following and attach the pertinent documents.

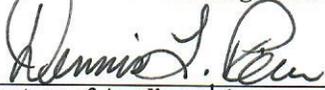
- Existing Municipal or Commercial System.** Please attach plans and specifications for the collection system and the associated "Information Regarding Proposed Wastewater Projects" form or approval from County Utility Authority in Hancock, Harrison, Jackson, Pearl River and Stone Counties. If the plans and specifications can not be provided at the time of LCNOI submittal, MDEQ will accept written acknowledgement from official(s) responsible for wastewater collection and treatment that the flows generated from the proposed project can and will be transported and treated properly. The letter must include the estimated flow.
- Collection and Treatment System will be Constructed.** Please attach a copy of the cover of the NPDES discharge permit from MDEQ or indicate the date the application was submitted to MDEQ (Date: \_\_\_\_\_.)
- Individual Onsite Wastewater Disposal Systems for Subdivisions Less than 35 Lots.** Please attach a copy of the Letter of General Acceptance from the Mississippi State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.
- Individual Onsite Wastewater Disposal Systems for Subdivisions Greater than 35 Lots.** A determination of the feasibility of installing a central sewage collection and treatment system must be made by MDEQ. A copy of the response from MDEQ concerning the feasibility study must be attached. If a central collection and wastewater system is not feasible, then please attach a copy of the Letter of General Acceptance from the State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.

INDICATE ANY LOCAL STORM WATER ORDINANCE WITH WHICH THE PROJECT MUST COMPLY:

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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 gathered and evaluated 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 submitting false information, including the possibility of fine and imprisonment for knowing violations.



Signature of Applicant<sup>1</sup> (owner or prime contractor)

11-13-23

Date Signed

Dennis Pierce  
Printed Name<sup>1</sup>

President  
Title

<sup>1</sup>This application shall be signed as follows:

- For a corporation, by a responsible corporate officer.
- For a partnership, by a general partner.
- For a sole proprietorship, by the proprietor.
- For a municipal, state or other public facility, by principal executive officer, mayor, or ranking elected official.

Please submit the LCNOI form to:

Chief, Environmental Permits Division  
MS Department of Environmental Quality, Office of Pollution Control  
P.O. Box 2261  
Jackson, Mississippi 39225

**APPENDIX B**

**VEGETATIVE SEEDING SCHEDULE**

**APPENDIX B**  
**VEGETATIVE SEEDING RATES FOR EROSION CONTROL**

<u>SPECIES</u>	<u>RATE/ACRE</u>	<u>DATE</u>
Pensacola Bahia	30#	Mar. 1 - June 30
Hulled Common Bermuda	8#	Mar. 1 - May 30
* Browntop Millet	35#	June 1 - Aug 15
Pensacola Bahia	30#	Sept 1 - Nov 15
Unhulled Common Bermuda	10#	Sept 1 - Oct 30
PLUS		
Wheat	90#	Sept 1 - Nov 30
Ryegrass	60#	Sept 1 - Nov 30
* Cereal Rye	90#	Nov 15 - Dec 15

MULCH

Hay or Wheat Straw	2 tons	After Seeding
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FERTILIZER

13-13-13	600#	Before Seeding
Lime	2 tons	Before Seeding

A current soil analysis recommendation may be substituted.

SEED BED PREPARATION

Slope all banks to a minimum of 3:1. Flatter if possible

After shaping and smoothing, pulverize soil to depth of 6 inches and harrow. Lime and fertilizer can be incorporated during seed bed preparation.

- - Temporary Cover to be followed with a perennial

**APPENDIX C**  
**SITE INSPECTION REPORT**

Keep a Copy Available at the Permitted Facility or Locally Available  
 Submit the Inspection Reports Only if Requested by the Mississippi Department of Environmental Quality (MDEQ)

**LARGE CONSTRUCTION GENERAL PERMIT  
 SITE INSPECTION AND CERTIFICATION FORM  
 COVERAGE NUMBER (MSR10 \_\_\_\_\_)**



**INSTRUCTIONS**

Results of construction storm water inspections required by ACT6 of this permit shall be recorded on this report form and kept with the Storm Water Pollution Prevention Plan (SWPPP) in accordance with the inspection documentation provisions of ACT10 of the this permit. Inspections shall be performed at least weekly for a minimum of four inspections per month. The coverage number must be listed at the top of all Inspection and Certification Forms.

**COVERAGE RECIPIENT INFORMATION**

OWNER/PRIME CONTRATOR NAME: \_\_\_\_\_

PROJECT NAME: \_\_\_\_\_

PROJECT STREET ADDRESS: \_\_\_\_\_

PROJECT CITY: \_\_\_\_\_ PROJECT COUNTY: \_\_\_\_\_

OWNER/PRIME CONTRACTOR MAILING ADDRESS: \_\_\_\_\_

MAILING CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_ CONTACT PHONE NUMBER: (\_\_\_\_\_) \_\_\_\_\_

**INSPECTION DOCUMENTATION**

DATE (mo/day/yr)	TIME (hr:min AM/PM)	ANY DEFICIENCIES? (CHECK IF YES)	INSPECTOR(S)
		<input type="checkbox"/>	

Deficiencies Noted During any Inspection (give date(s); attach additional sheets if necessary): \_\_\_\_\_

\_\_\_\_\_

Corrective Action Taken or Planned (give date(s); attach additional sheets if necessary): \_\_\_\_\_

\_\_\_\_\_

Based upon this inspection, which I or personnel under my direct supervision conducted, I certify that all erosion and sediment controls have been implemented and maintained, except for those deficiencies noted above, in accordance with the Storm Water Pollution Prevention Plan (SWPPP) and sound engineering practices as required by the above referenced permit. I further certify that the LCNOI and SWPPP information is up to date.

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 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 submitting false information, including the possibility of fines and imprisonment for knowing violations.

\_\_\_\_\_  
 Authorized Signature

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Printed Name

\_\_\_\_\_  
 Title

**APPENDIX D**  
**USGS QUAD MAP**

# Sumrall, MS Quad Map

