

HEINRICH & ASSOCIATES

RESIDENTIAL & COMMERCIAL DESIGN

March 15, 2023

Mississippi State Department of Environmental Quality
Stormwater Division
515 East Amite Street
Jackson, Mississippi 39201

**RE: Request for LCNOI Approval
Greens at Gulf Hills Subdivision Phase 2 – 35 Residential Lots
Jackson County, MS**

To Whom It May Concern:

For your review, please find delivered the LCNOI application, construction plans and specifications, SWPPP, and drainage calculations for the above referenced project.

If you have any questions or need any additional information, please contact me at (228) 896-6768.

Sincerely,

Robert Heinrich
Heinrich & Associates

21-177

attachments

AI :79810

Coverage # :
MSR108473

Rec'd via email:
03/17/2023



MISSISSIPPI DEPARTMENT OF
ENVIRONMENTAL QUALITY

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

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 severable responsibility for compliance with the Large Construction Storm Water General Permit MSR10.

If the company seeking coverage is a corporation, a limited liability company, a partnership, or a business trust, attach proof of its registration with the Mississippi Secretary of State and/or its Certificate of Good Standing. This registration or Certificate of Good Standing must be dated within twelve (12) months of the date of the submittal of this coverage form. Coverage will be issued in the company name as it is registered with the Mississippi Secretary of State.

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
- Antidegradation report for disturbance within Waters of the State

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

MSR10 **8473**

(NUMBER TO BE ASSIGNED BY STATE)

APPLICANT IS THE: ☒ OWNER ☐ PRIME CONTRACTOR

OWNER CONTACT INFORMATION

OWNER CONTACT PERSON: Brandon Elliot
OWNER COMPANY LEGAL NAME: Elliot Homes, LLC
OWNER STREET OR P.O. BOX: 1402 Pass Rd
OWNER CITY: Gulfport STATE: MS ZIP: 39501
OWNER PHONE #: (228) 257-9914 OWNER EMAIL: brandon@myelliothome.com

PREPARER CONTACT INFORMATION

IF NOI WAS PREPARED BY SOMEONE OTHER THAN THE APPLICANT

CONTACT PERSON: Bobby Heinrich
COMPANY LEGAL NAME: Heinrich & Associates, LLC
STREET OR P.O. BOX: 1806 23rd Ave., Suite B
CITY: Gulfport STATE: MS ZIP: 39501
PHONE # () 228-896-6768 EMAIL: bobby.h@heinrichassociates.net

PRIME CONTRACTOR CONTACT INFORMATION

PRIME CONTRACTOR CONTACT PERSON: N/A
PRIME CONTRACTOR COMPANY LEGAL NAME: N/A
PRIME CONTRACTOR STREET OR P.O. BOX: _____
PRIME CONTRACTOR CITY: _____ STATE: _____ ZIP: _____
PRIME CONTRACTOR PHONE #: () _____ PRIME CONTRACTOR EMAIL: _____

FACILITY SITE INFORMATION

FACILITY SITE NAME: Greens at Gulf Hills Subdivision Phase 2 - 35 Residential Lots
FACILITY SITE ADDRESS (If the physical address is not available, please indicate the nearest named road. For linear projects indicate the beginning of the project and identify all counties the project traverses.)
STREET: Little Church Rd
CITY: _____ STATE: MS COUNTY: Jackson ZIP: 39564
FACILITY SITE TRIBAL LAND ID (N/A If not applicable): N/A
LATITUDE: 30 degrees 26 minutes ^{10.28N} seconds LONGITUDE: 88 degrees 50 minutes ^{18.43W} seconds
LAT & LONG DATA SOURCE (GPS (Please GPS Project Entrance/Start Point) or Map Interpolation): Google Maps
TOTAL ACREAGE THAT WILL BE DISTURBED ¹: 14.3 +/- Acres

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

IF YES, NAME OF LARGER COMMON PLAN OF DEVELOPMENT: Greens Phase 1
AND PERMIT COVERAGE NUMBER: MSR108473

ESTIMATED CONSTRUCTION PROJECT START DATE: 2023-09-14
YYYY-MM-DD

ESTIMATED CONSTRUCTION PROJECT END DATE: 2024-3-15
YYYY-MM-DD

DESCRIPTION OF CONSTRUCTION ACTIVITY: Clearing, Grubbing, Water, Sewer, Sub-Surface Drainage, Paved Streets, Home Construction

PROPOSED DESCRIPTION OF PROPERTY USE AFTER CONSTRUCTION HAS BEEN COMPLETED:
35 Lot Residential Subdivision known as Greens Subdivision Phase 2

SIC Code: 1623 NAICS Code 23

NEAREST NAMED RECEIVING STREAM: Biloxi Bay

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) YES ☐ NO ☒

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

FOR WHICH POLLUTANT:

ARE THERE RECREATIONAL STREAMS, PRIVATE/PUBLIC PONDS OR LAKES WITHIN ½ MILE DOWNSTREAM OF PROJECT BOUNDARY THAT MAY BE IMPACTED BY THE CONSTRUCTION ACTIVITY? YES ☐ NO ☒

EXISTING DATA DESCRIBING THE SOIL (for linear projects please describe in SWPPP):
Sandy Loam Hydric Soil

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

IF YES, INDICATE THE TYPE OF FLOCCULANT. ☐ ANIONIC POLYACRYLAMIDE (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?

IS A SDS SHEET INCLUDED FOR THE FLOCCULATE? YES ☐ NO ☒

WILL THERE BE A 50 FT BUFFER BETWEEN THE PROJECT DISTURBANCE AND THE WATERS OF THE STATE? YES ☒ NO ☐

IF NOT, PROVIDE EQUIVALENT CONTROL MEASURES IN THE SWPPP.

¹Acreage for subdivision development includes areas disturbed by construction of roads, utilities and drainage. Additionally, a housesite of at least 10,000 ft² 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 THE PROJECT REROUTING, FILLING OR CROSSING A STATE WATER CONVEYANCE
OF ANY KIND? (If yes, please provide an antidegradation report.)

☐

NO ☒

IS A LAKE REQUIRING THE CONSTRUCTION OF A DAM BEING PROPOSED?

YES ☐

NO ☒

(If yes, provide appropriate approval documentation from MDEQ Office of Land and Water, Dam Safety.)

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 (I.E. MS4) WITH WHICH THE PROJECT MUST COMPLY:

Jackson County Stormwater Ordinance

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 Applicant¹ (owner or prime contractor)

Brandon Elliott

Printed Name¹

3-17-23
Date Signed

Owner

Title

¹This 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

Electronically:

<https://www.mdeq.ms.gov/construction-stormwater/>

Revised 3/23/22

Greens at Gulf Hills Subdivision Phase 2

Little Church Rd
Jackson County, Mississippi

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Prepared for

Elliot Homes, LLC
1402 Pass Rd.
Gulfport, MS 39501
(228) 257-9914

By:



Terry Moran Engineering
with Heinrich and Associates
1806 23rd. Ave., Ste. B
Gulfport, Mississippi 39501
PH (228) 896-6768

Project No. 21-177
(Updated 3-15-23)

STORMWATER POLLUTION PREVENTION PLAN

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Project Narrative

Project Description

The proposed project consists of a 35 - lot residential subdivision in Jackson County, MS (see attached drawings). The proposed project consists of approximately 14.3 +/- acres. Construction of the project will require site grading, utility installation, and roadwork. The site is currently a golf course and will require minimal clearing and land disturbance.

Location

The proposed project will be located at Little Church Rd within Gulf Hills Subdivision in Jackson County, Mississippi, as shown in the attached exhibits.

Access

There will be two (2) means of access to the subject development off Little Church Rd and Prado Rd as depicted in the drawings.

Planned Work

The proposed project will be constructed in one (1) phase. The total area to be disturbed within this development will be approximately 14.3 +/- acres. The disturbed area will consist of right of way clearing, water and sewer installation, sub-surface drainage with on-site detention, and the individual lot areas (6.3 +/- Ac. site construction and 8.0 +/- Ac. ind. lot areas). Brandon Elliot of Elliot Homes, LLC, who will be the coverage holder, will be responsible for all stormwater activities on the residential lots under construction

Soils

Existing sandy soil and hydric soil.

Construction Implementation Sequence

The following construction implementation sequence is planned to minimize the amount of sediment movement on site and sediment loss from the project site. Property line and construction boundary silt fence, silt-protection of the drainage system and double silt fencing along existing sensitive areas such as wetlands, ditches, etc. will be placed during construction to

maintain project erosion control. Installation and maintenance of these measures are considered critical for controlling sediment movement at this project site. Activities will not begin until all permits have been obtained and the work is authorized. Construction is expected to take 4 to 6 months, weather permitting. It is important that appropriate construction workers are aware of the SWPPP and have ready access to it. The owner or prime contractor must inspect and maintain controls, recording damages or deficiencies and corrective measures, and complete monthly inspection reports using the form provided by MDEQ. All non-functioning controls shall be repaired, replaced, or supplemented with functional controls within twenty-four (24) of discovery or as soon as field conditions allow. Changes to correct deficiencies in the SWPPP should also be made as soon as practicable after the inspection. The SWPPP must accurately reflect the site and construction and be corrected if it does not.

Construction Activities Sequence

Major construction activities will be scheduled and carried out in a manner consistent with routine construction practices per approved plans and specifications. The following list provides a general schedule of the events that will occur during construction as well as the sequence in which the events are proposed:

1. Install erosion control measures in areas to be disturbed in accordance with the erosion control plan such as construction entrance and silt fencing
2. Clear and grub the site as per plan
3. Stabilize excavated areas using BMP's
4. Install underground utilities
5. Construct roadway base and surface courses
6. Plant grass seed and provide permanent stabilization
7. Remove temporary erosion control measures after construction approval

Site Preparation

Prior to actual clearing and grubbing and stripping of any type of construction, a silt fence shall be placed along the perimeter of the development, in particular the down-slope edges of the area being developed and along the any protected wetland boundary if applicable.

Construction Access

Access to the development shall consist of one entrance off Prado Rd. as shown. This ingress/egress point shall be stabilized with crushed limestone, to a minimum thickness of eight inches (8"). The limestone shall be graded smooth, and maintained in that condition, for the duration of construction. The area of the limestone surface shall be a minimum of 20 feet wide by 50+/- feet long. Accumulated mud and debris shall be regularly removed from the entrance areas to prevent tracking onto public roads.

Sediment Control Measures

This project will be constructed utilizing associated sediment control measures. Silt fences, hay bales, and energy dissipation devices will be utilized and shall be installed in the following sequence to minimize soil movement and loss off the site:

- 1) Silt Fence: Silt fence shall be installed according to the manufacturer's recommendations.
 - a. Install a single line of silt fence barrier around the project perimeter property lines and install a double line of silt fence along the down slope sides of all environmentally sensitive areas such as delineated wetlands, existing ditches, and waterways, etc. prior to the clearing and grubbing operation.
 - b. Silt fence shall be removed no sooner than 30 days after work is completed and established with a good stand of grass vegetation.

Vegetation

Site development will proceed in a planned sequence and every attempt will be made to preserve existing vegetation to reduce erosion. All disturbed sites will be managed and re-vegetated as soon as practicable after final grading. Where applicable, disturbed areas will be stabilized by temporarily seeding, permanent seeding, and/or mulching or by leaving the existing forest floor intact. Contractor shall initiate vegetative stabilization measures whenever any clearing, grading, grubbing, excavating, or other land disturbing activities have temporarily or permanently ceased on any portion of the site and will not resume for a period of fourteen (14) calendar days or more. The appropriate temporary or permanent vegetative practices shall be initiated immediately. For the purposes of this permit, "immediately" is interpreted to mean no later than the next workday. The use of heavy equipment in those areas are to be re-vegetated.

Maintenance Plan

Both the short-term (during construction) and long-term (after construction) maintenance needs are addressed herein.

Short Term (During Construction)

These areas will be seeded in accordance with planting schedule, rate of application, and planting preparation outlined in the MDEQ seeding chart, or shall be lined with an erosion and sediment control blanket or shall be mulched per MDEQ requirements.

All erosion and sediment control practices will be checked for stability and operation following every runoff producing rainfall, but not less than once per week. Any needed repairs and/or replacement shall be made immediately to maintain the performance as designed.

Permanent seeding will be established on disturbed areas. This may include mulching or hydro-seeding. Biodegradable erosion control matting may be used to assist in establishing permanent stabilization on steep slopes.

Sediment shall be removed from the upstream side of the silt fence when it accumulates to approximately six inches (6") deep at the fence. The silt fence shall then be replaced as necessary to maintain a continuous barrier.

All vegetated areas will be fertilized, and re-vegetated as necessary to maintain a dense plant establishment.

Certain structural erosion control measures shall be implemented as necessary. The measures include diverting flows from exposed soils and/or otherwise limiting runoff from exposed areas. Other structural methods will include silt fence, earth dikes, drainage swales, outlet protection, and equivalent sediment controls.

Silt fencing and a sediment barrier may be utilized to intercept and retain sediment from disturbed areas during construction activities. Silt fencing will consist of synthetic fabric attached to supporting posts and shall be entrenched. Sediment barriers will be constructed of filter fabric, natural stone, concrete rip-rap, or other acceptable materials. These structures will be installed downslope of the disturbed areas or in minor swales or ditch lines that have been constructed the

sole purpose of facilitating stormwater drainage. Silt fencing and sediment barriers will not be installed in live streams or in areas where surface flow is anticipated to exceed one (1) cubic foot per second (cfs). These structures will be installed as necessary and will be maintained until other permanent erosion control methods can be installed. Structures will be cleaned out when it has reached 1/3 to 1/2 height of the control.

Sediment barriers, such as silt fencing, block and gravel, etc., or excavated impoundment areas will be constructed around storm drain inlets located within the project boundaries.

Sediment basins consist of a depression created in the earth suitably located to collect sediment laden surface water to allow settlement of suspended soil particles before storm water is allowed to exit the site. The basin shall include a flat bottom, lined emergency spillway, interior porous baffles, and a floating skimmer. The flat bottom and baffles will spread the flow across the basin and increase deposition of sediment in the basin. The skimmer dewater the basin from the top of the water column where the water is cleanest and increases the amount of sediment captured. The skimmer also allows the basin to fill and then slowly drain over several days. Structures will be cleaned out when it has reached 50% capacity of the control.

Ditch checks shall consist of straw wattles designed to control concentrated flows of water in a ditch or swale. They are normally constructed in a series spaced such that the top elevation of the downstream wattle is at the same elevation as the ground at the nearest upstream wattle. Ditch checks will slow the flow of water which will help establish vegetation and will also trap sediment.

Wattles may be used to minimize erosion by shortening the slope lengths, reducing water flow velocities and trapping sediment on site. Wattles are made of either weed-free certified straw or excelsior and encased in the UV degradable plastic netting or 100% biodegradable burlap with a standard size of 12" in diameter and 25' in length, weighting approximately 35#. On slopes, installation should be on the contour with a slight downslope to prevent ponding behind the wattle. Wattles should always be installed in shallow trenches constructed on the contour. Anchoring the wattles is necessary and can be accomplished using 1"x1"x18"-24" wood stakes penetrating through the center of the wattle and in the soil approximately 6". The frequency of anchoring should be a minimum of 4-5 stakes, equally spaced, per 25' of the wattle installation.

Long Term

Long Term (After Construction)

All vegetated areas will be maintained in an adequate condition to provide proper ground cover and to reduce to potential for erosion and soil loss, until taken over by the City/County. Where vegetation is lost, the area shall be fertilized, re-mulched and re-seeded as necessary to restore proper ground cover.

In order to ensure the effectiveness of the erosion and sediment control practices incorporated into this erosion control plan, the contractor will regularly inspect and maintain the stormwater control devices referenced above throughout the construction of the project.

As needed, new employees and/or parties responsible for maintaining the site will be informed about the requirements of the Maintenance Plan.

All measures will be maintained in good working order and repaired within 24 hours of any rain event or reported problem. Permanent corrective measures shall be implemented within 5 days of the inspections. If permanent corrective measures cannot be implemented within the time frame provided, the Owner/Contractor shall contact MDEQ. Silt barriers and sediment traps will be inspected for depth of sediment, tears, breaches, and general integrity of a weekly basis. Sediment buildup behind silt barriers and in sediment traps will be removed when it has reached one half of the height of the barrier or one half of the volume of the sediment trap. A maintenance inspection report will be made after each weekly inspection and will be filed and retained on the jobsite by the contractor.

Good Housekeeping

The following good housekeeping practices will be practiced at the site throughout the construction project:

- All onsite materials shall be stored in a neat, orderly manner in their appropriate containers
- Products will be kept in their original containers with the original manufacture's label
- Manufacturer's recommendations for the proper use and disposal of materials will be followed

- The site superintendent will inspect the site daily to ensure proper onsite use and disposal of all materials
- The Contractor shall clearly indicate on a site map within the SWPPP a designated area for concrete truck washout. The location shall be approved by the Owner or their authorized representative prior to its usage. The washout area must be in a location that captures the residual concrete and prevents it from migrating to natural or manmade drainage ways and/or to surface waters. It is the responsibility of the Contractor to monitor this area and to ensure that all residual concrete is captured and handled appropriately and/or as directed by the Owner or their authorized representative. During final site cleanup, the Contractor shall remove from the project site all residual concrete produced by the washout operations.

Additional SWPPP Notes and Training

- Contractor shall stockpile topsoil for use in landscaping
- Contractor shall line all proposed swales and detention pond slopes with erosion and sediment control blankets as shown
- Contractor shall roughen all 4:1 cut slopes by disking prior to seeding
- Contractor shall be responsible for seeding with permanent seed any disturbed areas within (see owner for type of landscape to be used)
- All equipment maintenance and repair shall be done in area shown on erosion control plan
- Trash receptacles shall be placed at convenient locations through the site
- The main metal trash collection bin shall be placed near the corner of the construction entrance. Contractor shall coordinate pickup with the County or refuse disposal providers and shall ensure that collection is done with a minimum of once a week. No construction waste will be burned or buried on the construction site. All hazardous waste materials will be disposed of in the manner specified by the local and/or State regulations. All sanitary waste will be collected from the portable units as required. once the project is completed, all sanitary waste generated on the site will be removed and disposed of properly.
- All spills will be cleaned up immediately!!!
- Spills of toxic or hazardous materials will be reported to the appropriate governmental agency.

- Materials and equipment necessary for spill cleanup will be kept onsite within the material storage area. Equipment and materials will include but not necessarily be limited to brooms, dustpan, mops, rags, safety equipment, gloves, goggles, absorbent material, sand, sawdust, and plastic/metal trash containers.
- All equipment repair and maintenance shall be done in an area designated on the stormwater management plan or off-site.
- Contractor shall initiate vegetative stabilization measures whenever any clearing, grading, grubbing, excavating, or other land disturbing activities have temporarily or permanently ceased on any portion of the site and will not resume for a period of fourteen (14) calendar days or more. The appropriate temporary or permanent vegetative practices shall be initiated immediately. For the purposes of this permit, “immediately” is interpreted to mean no later than the next workday.
- All non-functioning controls shall be repaired, replaced, or supplemented with functional controls within twenty-four (24) hours of discovery or as soon as field conditions allow.
- Contractor shall remove any sediment from silt fence, check points, and inlet protection devices whenever sediment is accumulated when it has reached 1/3 to 1/2 height of the control and 50% capacity of the sediment basins. Contractor shall maintain all vegetated areas to provide proper ground cover by reseeding, fertilization, or mulching.
- A temporary office and portable toilet buildings shall be located at the or near the job trailer or lay-down yard and at locations so that no part of the project is more than 1,000 feet from a toilet facility if possible. These structures shall be maintained on a regular schedule by a licensed disposal company.
- The owner’s intention is to balance the dirt on the property in order to fill in low areas and to install gravity sewer where possible in order to eliminate a sewer pump station.

TRAINING - In-house employee training programs are established to teach employees about storm water management, potential sources of contaminants, and Best Management Practices (BMPs). Employee training programs should instill all personnel with a thorough understanding of their Storm Water Pollution Prevention Plan (SWPPP), including BMPs, processes and materials they are working with, safety hazards, practices for preventing discharges, and procedures for responding quickly and properly to toxic and hazardous material incidents.

APPLICABILITY - Typically, most industrial facilities have employee training programs. Usually these address such areas as health and safety training and fire protection. Training on

storm water management and BMPs can be incorporated into these programs. Employees can be taught through 1) posters, employee meetings, courses, and bulletin boards about storm water management, potential contaminant sources, and prevention of contamination in surface water runoff, and 2) field training programs that show areas of potential storm water contamination and associated pollutants, followed by a discussion of site-specific BMPs by trained personnel.

ADVANTAGES AND DISADVANTAGES - Advantages of an employee training program are that the program can be a low-cost and easily implementable storm water management BMP. The program can be standardized and repeated as necessary, both to train new employees and to keep its objectives fresh in the minds of more senior employees. A training program is also flexible and can be adapted as a facility's storm water management needs change over time. Obstacles to an employee training program include: 1) Lack of commitment from senior management. 2) Lack of employee motivation. 3) Lack of incentive to become involved in BMP implementation.

KEY PROGRAM COMPONENTS Specific design criteria for implementing an employee training program include: 1) Ensuring strong commitment and periodic input from senior management. 2) Communicating frequently to ensure adequate understanding of SWPPP goals and objectives. 3) Utilizing experience from past spills to prevent future spills. 4) Making employees aware of BMP monitoring and spill reporting procedures. 5) Developing operating manuals and standard procedures. 6) Implementing spill drills.

IMPLEMENTATION An employee training program should be an on-going, yearly process. Meetings about SWPPPs should be held at least annually, possibly in conjunction with other training programs. Worksheets will be provided and used to plan and track employee training programs. Program performance depends on employees' participation and on senior management's commitment to reducing point and nonpoint sources of pollution; therefore, performance will vary among facilities.

Companies are encouraged to hire a SWPPP officer or manager to ensure that its employees are up to date with BMP requirements.

For more information, please contact:

Mississippi Department of Environmental Quality

515 East Amite Street

Jackson, MS 39201

601-961-5171

Seeding Chart for the State of Mississippi

SPECIES	SEEDING RATE/ACRE	PLANTING TIME	DESIRED pH RANGE	FERTILIZATION RATE/ACRE	METHOD OF ESTABLISHMENT	ZONE OF ADAPT-ABILITY ¹
Common Bermuda	15 lbs. alone 10 lbs. mixture	311-7115 911-11/30	6.0 - 7.0	600 lbs. 13-13-13	seed or sod	All
Bahia	40 lbs. alone 30 lbs. mixture	3/1 - 7115 911-11130	6.0 - 7.0	600 lbs. 13-13-13	seed	Central South
Fescue	40 lbs. alone 30 lbs. mixture	911-11130	6.0 - 7.0	600 lbs. 13-13-13	seed	North Central
Saint Augustine	--	311-7115	6.0 - 7.0	600 lbs. 13-13-13	sod only	Central South
Centipede	4 lbs. alone 2.5 lbs. mix	311-7115	6.0 - 7.0	600 lbs. 13-13-13	seed or sod	All
Carpet Grass	15 lbs. alone 10 lbs. mixture	311-7115	6.0 - 7.0	600 lbs. 13-13-13	seed or sod	All
Oysia Grass	--	3/1 - 7115	6.0 - 7.0	600 lbs. 13-13-13	sod only	All
Creeping Red Fescue	30 lbs. alone 22.5 lbs. mix	911-11/30	6.0 - 7.0	600 lbs. 13-13-13	seed	All
Weeping Lovegrass	10 lbs. alone 5 lbs. mix	3/1 - 7/15	6.0 - 7.0	600 lbs. 13-13-13	seed	All
Sericca Lcspedeza	40 lbs.	311-7115 911-11130	6.0 - 7.0	400 lbs. 6-24-24	seed	All
*Wheat	90 lbs. alone	9/1 - 11130	6.0 - 7.0	600 lbs. 13-13-13	seed	All
Ryegrass	30 lbs.	911-11/30	6.0 - 7.0	600 lbs. 13-13-13	seed	All
*White Clover	5 lbs.	9/1 - 11130	6.0 - 7.0	400 lbs. 6-24-24	seed	All
*Crimson Clover	25 lbs. alone 15 lbs. mix	9/1 - 11130	6.0 - 7.0	400 lbs. 6-24-24	seed	All
*Hairy Vetch	30 lbs.	9/1 - 11130	6.0 - 7.0	400 lbs. 6-24-24	seed	All
*Browntop Millet	40 lbs. alone 15 lbs. mix	4/1 - 8/30	6.0 - 7.0	600 lbs. 13-13-13	seed	All

* Annuals. For permanent seeding, annuals can only be used in a mixture with perennials.

Site Location Map



Vicinity Map



USGS 7.5 Minute Quadrangle Map



Erosion Control Plan and Details

(see attached Sediment Control Plan and Details)

Appendix A – Drainage Calculations

See Attached