



August 13, 2015

Tennessee Department of Environment & Conservation  
Division of Water Pollution Control  
8383 Wolf Lake Drive  
Bartlett, Tennessee 38133-4119  
Attention: Stormwater NOI Processing

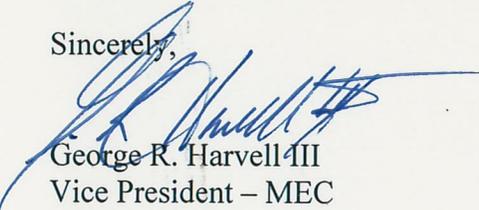
Re: Springdale Creek Apartments – North End  
2510 Jackson Avenue  
Memphis, Tennessee  
RCRA Corrective Measures Activities  
Stormwater Pollution Prevention Plan (SWPPP)  
Notice of Intent (NOI)

Dear Sir:

Please find enclosed the Stormwater Pollution Prevention Plan (SWPPP) & Notice of Intent (NOI) for the upcoming RCRA Corrective Measures Work to be performed at the Springdale Creek Apartments – North End. The Work (remediation) that is planned for the site was approved on June 2, 2014 by the Tennessee Department of Environment & Conservation (TDEC) – Division of Solid Waste Management.

If upon review of these documents, you have any questions or need any additional information, please let me know (901-323-6180) or you may also contact the TDEC-DSWM project manager Roger Donovan (901-532-0864).

Sincerely,

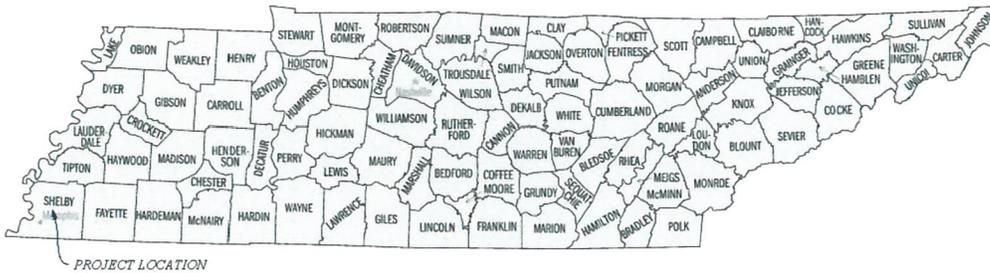
  
George R. Harvell III  
Vice President – MEC  
Velsicol Chemical LLC

Cc

Roger Donovan – TDEC-DSW  
Maylynne Wilbert – TDEC-DWQ  
Keith Yarrow – ECS, Inc.  
Steven Turgens – Springdale Memphis L.P.  
Greg Anderes – Denovo

# STORMWATER POLLUTION PREVENTION PLAN

## Springdale Creek Apartments 1300' North of the Intersection of Springdale Run Drive & Jackson Avenue Memphis, Shelby County, Tennessee



**Owner Contact:**  
**Springdale Memphis, L.P.**  
11 South Orleans Street  
Memphis, TN 38103  
(901) 529-0550

**Contractor:**  
Denovo Constructors  
100 S. Wacker Drive, Suite LL1-50  
Chicago, IL 60607  
(312) 733-9370

**Prepared By:**  
**PDG/Womble Engineering, LLC Joint Venture**  
324 West Valley Street, Suite 107  
Hernando, MS 38632  
(901) 604-0904

In accordance with Part 3.5 of the TDEC General NPDES Permit TNR10-0000, the components of the SWPPP have been included herein.

SWPPP and CNOI shall be located on-site and available for inspection during construction.

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## SECTION 1: SITE DESCRIPTION

### 1.1 Project/Site Information

The site is 4.05 acres located at the north end of Springdale Run Drive in Memphis, Shelby County, Tennessee approximately 1300' north of the intersection of Jackson Avenue and Springdale Run Drive. The site is part of the Springdale Creek Apartment Complex.

### 1.2 Description of Activities

<b>Construction Activity Sequence and BMP descriptions</b>
<p><b>Before any site grading activities begin</b></p> <ol style="list-style-type: none"><li>1. Locate existing site utilities.</li><li>2. Construct stabilized construction exit.</li><li>3. Install initial erosion prevention and sediment controls including perimeter silt fencing and existing storm drainage inlet protection.</li></ol>
<p><b>Site Demolition &amp; Grading</b></p> <ol style="list-style-type: none"><li>1. Begin site clearing and demolition operations.</li><li>2. Once demolition is complete and adjust rims of existing inlets to meet final grade elevations.</li><li>3. Haul-in fill material for soil cap and shape in accordance with grading contours shown on the EPSC Plan</li><li>4. Install additional temporary silt fencing as required within the grading limits and around any stockpiled material.</li><li>5. Install rock check dam in drainage swale.</li><li>6. Disturbed areas where construction will cease for more than 14 days will be stabilized with erosion prevention and sediment controls.</li></ol>
<p><b>Final stabilization and landscaping</b></p> <ol style="list-style-type: none"><li>1. Remove all temporary control BMPs and stabilize any areas disturbed by their removal with erosion controls.</li><li>2. Provide sodding, seeding and mulching for long term soil stabilization.</li><li>3. Monitor stabilized areas until final stabilization is achieved.</li></ol>

### 1.3 Description of Total Area Disturbed

The site is approximately 4.05 acres, all of which will be disturbed by construction activities. The site is currently vacant and the proposed construction activities include:

- Demolition and removal of existing building pads and utility service connections
- Removal of existing asphalt and concrete paving.
- Haul in fill material to provide 1.25' minimum depth soil cap over existing

### 1.4 Soils, Slopes, Vegetation, and Current Drainage Patterns

Soil type(s):

According to the Soil Resource Report provided by the USDA Natural Resources Conservation Service, on-site soils consist of Graded Lands (Gr) consisting primarily of silty loam materials (udorthent, silty) at depths up to 60 inches.

Existing Slopes:

The existing slopes across the majority of the site range from 2% to 4% which convey the storm water in a sheet flow pattern from west to east across the site. Existing slopes near the east and west property lines are somewhat steeper and fall in the range from 10% to 20%. The existing ground cover consists of natural grasses and vegetation.

Proposed Drainage Patterns:

The proposed drainage patterns for the site will be consistent with the existing drainage pattern. Storm water will continue to flow in a sheet flow pattern across the site where it will be collected by existing storm water inlets as shown by the EPSC Plans. The rims elevations of the existing inlets will be adjusted as required to meet finished grade elevations. The storm water collected on site will ultimately be conveyed to Cypress Creek via an existing 36" storm drain pipe.

### 1.5 Construction Site Estimates

The following are estimates of the construction site:

Total site area:	4.05 acres
Area to be disturbed by construction:	4.05 acres
Percentage impervious area before construction:	40%
Runoff coefficient before construction:	0.46
Percentage impervious area after construction:	0%
Runoff coefficient after construction:	0.12

The runoff volume of storm water for design of erosion prevention and sediment control is calculated by obtaining the rainfall depth for a 5-year, 24-hour storm event in the Memphis, TN area and multiplying it by the site acreage for both disturb and non-disturbed areas. The rainfall depth is obtained from interpolating the value from the 5 Year, 24-hour map in the Technical Paper No. 40, Rainfall Frequency Atlas of the United States. The rainfall depth for the Memphis, TN area is 5.0 inches or 0.42 feet. The total drainage area (disturbed and non-disturbed) for this site is 4.05 acres. Therefore the design runoff volume (excluding infiltration) for the site is 4.05 acres x 0.42 ft. = 1.07 ac.-ft.

## **1.6 Receiving Waters**

The primary receiving waters for the site is Cypress Creek.

## SECTION 2: EROSION PREVENTION AND SEDIMENT CONTROLS

A stone construction entrance will be constructed in order to contain soil on the site. The entrance will be located at the south entrance into the property on Springdale Run Drive. A layer of rock approximately 20 feet wide, 50 feet long, and 8 inches thick will be placed as driving surface. The stone will be 2-inch to 4-inch limestone and will be underlain with 10 ounce per square yard, needled felt geotextile fabric. It is necessary that the stone be placed within the range of diameters given in order to provide a surface that will be rough enough to shake mud and debris from the tires of vehicles exiting the construction site. The voids between the larger stone also provide storage for the deposits so as to minimize transfer to other vehicles.

Other erosion and sediment controls:

- The construction-phase erosion prevention controls shall be designed to minimize the dislodging and suspension of soil in water. Sediment controls shall be designed to retain mobilized sediment on site.
- All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications (where applicable) and good engineering practices. All control measures selected must be able to slow runoff so that rill and gully formation is prevented. When steep slopes and/or fine particle soils are present at the site, additional physical or chemical treatment of storm water runoff may be required, and must be fully described. If periodic inspections or other information indicates a control has been used inappropriately, or incorrectly, the permittee must replace or modify the control for relevant site situations.
- Sediment should be removed from sediment traps, silt fences, sedimentation ponds, and other sediment controls as necessary, and must be removed when design capacity has been reduced by 50%.
- Litter, construction debris, and construction chemicals exposed to storm water shall be picked up prior to anticipated storm events or before being carried off of the site by wind (e.g., forecasted by local weather reports), or otherwise prevented from becoming a pollutant source for storm water discharges (e.g., screening outfalls, daily pick-up, etc.). After use, materials used for erosion prevention and sediment control should be removed or otherwise prevented from becoming a pollutant source for storm water discharge.
- Pre-construction vegetative ground cover shall not be destroyed, removed or disturbed more than 10 days prior to grading or earth moving unless the area is seeded and/or mulched or other temporary cover is installed.
- Clearing and grubbing must be held to the minimum necessary for grading and equipment operation.

- Construction must be sequenced to minimize the exposure time of graded or denuded areas.
- Erosion prevention and sediment control measures must be in place and functional before earth moving operations begin, and must be constructed and maintained throughout the construction period. Temporary measures may be removed at the beginning of the workday, but must be replaced at the end of the workday.
- The following records shall be maintained on or near site: the dates when major grading activities occur; the dates when construction activities temporarily or permanently cease on a portion of the site; the dates when stabilization measures are initiated; inspection records and rainfall records

## 2.1 Stabilization Practices

Stabilization practices may include: temporary seeding, permanent sod, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Use of impervious surfaces for final stabilization in lieu of a permanent vegetative cover will not be permitted.

Stabilization measures shall be initiated as soon as possible in portions of the site where construction activities have temporarily or permanently ceased. Temporary or permanent soil stabilization at the construction site (or a phase of the project) must be completed no later than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. In the following situations, temporary stabilization measures are not required:

- a) where the initiation of stabilization measures is precluded by snow cover or frozen ground conditions or adverse soggy ground conditions, stabilization measures shall be initiated as soon as practicable; or
- b) where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 14 days.

Permanent stabilization with perennial vegetation (using native herbaceous and woody plants where practicable) or other permanently stable, non-eroding surface shall replace any temporary measures as soon as practicable. Unpacked gravel containing fines (silt and clay sized particles) or crusher runs will not be considered a non-eroding surface.

## 2.2 Storm Water Controls

The Storm Water Pollution Prevention Plan is comprised of three techniques that include construction management, vegetative controls and structural controls.

### CONTROLS

Construction management techniques will include the following:

1. Minimizing clearing and grubbing for grading and equipment operations.
2. Minimizing cleared surface area exposure time by sequenced construction.
3. Properly constructing and maintaining erosion and sediment control measures throughout the construction period.

Vegetative controls will include the following:

1. Maintaining vegetative ground cover no less than 10 calendar days prior to grading.
2. Applying appropriate annual vegetation for temporary soil stabilization on areas that will remain unfinished for more than 15 calendar days.
3. Applying perennial vegetation for permanent soil stabilization as soon as practicable. Unpaved areas will be seeded, sodded, or paved as soon as final grading is complete.
4. Temporary seeding should be performed according to the following table:

Permanent Seeding Mixtures		
Seeding Dates	Grass Seed	Percentages
February 1 to July 1	Kentucky 31 Fescue	80%
	Korean Lespedeza	15%
	English Rye	5%
June 1 to August 15	Kentucky 31 Fescue	55%
	English Rye	20%
	Korean Lespedeza	15%
	German Millet	10%
April 15 to August 15	Bermudagrass (hulled)	70%
	Annual Lespedeza	30%

August 1 to December 1	Kentucky 31 Fescue	70%
	English Rye	20%
	White Clover	10%
February 1 to December 1	Kentucky 31 Fescue	70%
	Crown Vetch	25%
	English Rye	5%
<b>Temporary Seeding Mixtures</b>		
<b>Seeding Dates</b>	<b>Grass Seed</b>	<b>Percentages</b>
January 1 to May 1	Italian Rye	33%
	Korean Lespedeza	33%
	Summer Oats	34%
May 1 to July 15	Sudan - Sorghum	100%
May 1 to July 15	Starr Millet	100%
July 15 to January 1	Balboa Rye	67%
	Italian Rye	33%

Structural controls will include the following:

1. Silt fence installed along the base of all fills and cuts, on the downhill sides of any stockpiled soil, and along parking/roadway areas to prevent erosion into the proposed and existing drainage system. Silt fence can be removed at the beginning of the workday, but will be replaced at the end of the day.
2. Diversion of all surface water flowing toward construction areas to or silt fences.
3. Inlet sediment barriers around all inlet structures.
4. Construction entrance/exit of 2" to 4" stone over geotextile filter fabric.

Phased Installation of Structural Controls:

1. Prior to the start of clearing & grubbing, top-soiling and earthwork, silt fences and inlet protection devices will be installed where practical.
2. Inlet sediment barriers will be installed immediately after installation of inlets, manholes, and concrete or earthen drainage swales.
3. Stone check dams will be installed immediately after earthen drainage swales are graded.

4. Construction of the soil cap will be completed, with all runoff continuing to be routed to the perimeter silt fencing and existing storm drains. Following filling and grading operations all exposed pervious areas shall be seeded within seven days of the completion of grading and the seeded areas monitored on a timely basis to assure an adequate stand of grass in the shortest possible time. Fertilize and re-seed areas that fail to achieve adequate stand of grass until final stabilization is achieved.

### **2.3 Approved Local Government Sediment and Erosion Control Requirements**

Permittees should comply with any additional erosion prevention, sediment controls and storm water management measures required by a local MS4 program or municipality. This provision does not apply to provisions of master plans, comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific local government plan or permit that is issued for the construction site.

## **SECTION 3: MAINTENANCE AND INSPECTIONS**

### **3.1 Maintenance**

Construction management measures will be inspected or maintained as follows:

1. Inspecting all control measures twice a week at least 72 hours apart.
2. All erosion control measures should be cleaned when design capacity is reduced by 50%.
3. Checking all controls daily during prolonged rainfall.
4. Keeping construction debris from entering drainage systems.
5. Designating a specific individual to be responsible for erosion controls at the site.
6. Make all needed repairs to erosion devices within 24 hours.

Structural controls will be inspected or maintained as follows:

1. Silt fence will be inspected after each rainfall and at least daily during prolonged rainfall.
2. Sediment removal will be monitored to avoid damage or impairment to erosion control structures. Any fencing and/or stakes that are damaged during removal of silt shall be repaired or replaced.
3. All erosion prevention and sediment control measures installed on-site will withstand a 5-year, 24-hour storm event.

### **3.2 Inspections**

- a) Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion prevention and sediment control measures identified in the SWPPP shall be observed to ensure that they are operating correctly.
- b) Outfall points (where discharges leave the site or enter the existing storm water collection system) shall be inspected to determine whether erosion prevention and sediment control measures are effective in preventing significant impacts to receiving waters. Where discharge locations are inaccessible, nearby downstream locations shall be inspected. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.
- c) Based on the results of the inspection, any inadequate control measures or control measures in disrepair shall be replaced or modified, or repaired as necessary, before the next rain event if possible, but in no case more than 7 days after the need is identified.

### 3.3 Quality Assurance Site Assessments

Quality assurance of erosion prevention and sediment controls shall be achieved by performing a site assessment at the construction site. The site assessment shall be conducted at each outfall involving drainage totaling 10 or more acres or 5 or more acres if draining to an impaired or exceptional quality waters, within a month of construction commencing at each portion of the site that drains the qualifying acreage of such portion of the site. The site assessment shall be performed by individuals with the following qualifications:

- a) a licensed professional engineer or landscape architect;
- b) a Certified Professional in Erosion and Sediment Control (CPESC) or
- c) a person that successfully completed the "Level II Design Principles for Erosion Prevention and Sediment Control for Construction Sites" course.

This site does NOT meet the criteria above; however,

As a minimum, a site assessment should be performed to verify the installation, functionality and performance of the EPSC measures described in this SWPPP. The site assessment should be performed with the inspector, and should include a review and update (if applicable) of the SWPPP. Modifications of plans and specifications for any building or structure, including the design of sediment basins or other sediment controls involving structural, hydraulic, hydrologic or other engineering calculations shall be prepared by a licensed professional engineer or landscape architect and stamped and certified in accordance with the Tennessee Code Annotated, Title 62, Chapter 2 and the rules of the Tennessee Board of Architectural and Engineering Examiners.

The site assessment findings shall be documented and the documentation kept with the SWPPP at the site. At a minimum, the documentation shall include information included in the inspection form provided in this document. The documentation must contain the printed name and signature of the individual performing the site assessment and the following certification:

"I certify under penalty of law that this report and all attachments are, 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."

The site assessment can take the place of one of the twice weekly inspections requirement.

The division may require additional site assessment(s) to be performed if site inspection by division's personnel reveals site conditions that have potential of causing pollution to the waters of the state.

CERTIFICATION STATEMENTS

**Owner or Developer Certification**

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

Springdale Memphis LP  
Representative of Owner or Developer  
*With verbal approval from  
Steven Turgans to sign.*

*[Signature]*  
Signature  
*Georgia R Howell*

8-13-15  
Date

**Contractor Certification**

(Must be signed by president, vice-president or equivalent, or ranking elected official) (Secondary Permittee)

"I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations and for failure to comply with these permit requirements."

DeNovo Constructors, Inc.  
Primary Contractor

*[Signature]*  
Signature

8/13/2015  
Date

## **A.1 Notice of Intent (NOI)**



**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION**  
 Division of Water Pollution Control  
 6<sup>th</sup> Floor Annex, L&C Tower, 401 Church Street, Nashville, Tennessee 37243  
 1-888-891-8332 (TDEC)

**Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities (TNR100000)**

<b>Site or Project Name:</b> Springdale Creek Apartments		<b>NPDES Tracking Number:</b> TNR	
<b>Street Address or Location:</b> Approximately 1300' North of the intersection of Springdale Run Drive and Jackson Avenue		<b>Start date:</b>	7/1/2015
		<b>Estimated end date:</b>	9/1/2015
<b>Site Description:</b> Springdale Apartment Complex		<b>Latitude (dd.dddd):</b>	35.1614
		<b>Longitude (dd.dddd):</b>	89.9737
<b>County(ies):</b> Shelby	<b>MS4 Jurisdiction:</b>	<b>City of Memphis</b> TNS068276	<b>Acres Disturbed:</b> 4.05
		<b>Total Acres:</b>	4.05
Does a topographic map show dotted or solid blue lines <input checked="" type="checkbox"/> and/or wetlands <input type="checkbox"/> on or adjacent to the construction site? If wetlands are located on-site and may be impacted, attach wetlands delineation report. If an Aquatic Resource Alteration Permit has been obtained for this site, what is the permit number? ARAP permit No.: NA			
<b>Receiving waters:</b> Cypress Creek			
<b>Attach the SWPPP with the NOI</b> <input checked="" type="checkbox"/> SWPPP Attached		<b>Attach a site location map</b> <input checked="" type="checkbox"/> Map Attached	
<b>Name of Site Owner or Developer (Site-Wide Permittee):</b> (person, company, or legal entity that has operational or design control over construction plans and specifications): Springdale Memphis, L.P.			
<b>Site Owner or Developer Contact Name:</b> (individual responsible for site): Steven Turgens		<b>Title or Position:</b> (the party who signs the certification below): Chief Manager	
<b>Mailing Address:</b> 11 South Orleans Street		<b>City:</b> Memphis	<b>State:</b> TN <b>Zip:</b> 38103
<b>Phone:</b> ( 901 ) 529-0550	<b>Fax:</b>	<b>E-mail:</b> sgturgen@amblla.net	
<b>Optional Contact:</b> George R. Harvell		<b>Title or Position:</b> Vice President Velsicol Chemical LLC	
<b>Mailing Address:</b> 1199 Warford St.		<b>City:</b> Memphis	<b>State:</b> TN <b>Zip:</b> 38108
<b>Phone:</b> ( 901 ) 323-6226	<b>Fax:</b> ( 901 ) 324-5807	<b>E-mail:</b> gharvell@velsicol.com	
<b>Owner or Developer Certification</b> (must be signed by president, vice-president or equivalent, or ranking elected official) (Primary Permittee)			
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 submitting false information, including the possibility of fine and imprisonment for knowing violations.			
<b>Owner or Developer Name:</b> (print or type) Springdale Memphis with approval from Steven Turgens for sign		<b>Signature:</b> [Signature]	<b>Date:</b> 8-13-15
<b>Contractor(s) Certification</b> (must be signed by president, vice-president or equivalent, or ranking elected official) (Secondary Permittee)			
I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations, and for failure to comply with these permit requirements.			
<b>Primary contractor name and address;</b> (print or type) Brian Kilkenny; Denovo Constructors 100 S. Wacker Drive, Suite LL1-50, Chicago, IL 60607		<b>Signature:</b> [Signature]	<b>Date:</b> 8/13/2015
<b>Other contractor name and address;</b> (print or type)		<b>Signature:</b>	<b>Date:</b>
<b>Other contractor name and address;</b> (print or type)		<b>Signature:</b>	<b>Date:</b>
<b>OFFICIAL STATE USE ONLY</b>			
<b>Received Date:</b>	<b>Reviewer:</b>	<b>Field Office:</b>	<b>Permit Number</b> TNR
<b>Fee(s):</b>	<b>T &amp; E Aquatic Flora and Fauna:</b>	<b>Impaired Receiving Stream:</b>	<b>Exceptional TN Water:</b>
			<b>Notice of Coverage Date:</b>

**Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities (TNR100000)**

**Purpose of this form** A completed notice of intent (NOI) must be submitted to obtain coverage under the Tennessee General NPDES Permit for Discharges of Stormwater Associated with Construction Activity (permit). **Requesting coverage under this permit means that an applicant has obtained and examined a copy of this permit, and thereby acknowledges applicant’s claim of ability to be in compliance with permit terms and conditions.** This permit is required for stormwater discharge(s) from construction activities including clearing, grading, filling and excavating (including borrow pits) of one or more acres of land. This form should be submitted at least 30 days prior to the commencement of land disturbing activities, or no later than 48 hours prior to when a new operator assumes operational control over site specifications or commences work at the site.

**Permit fee** (see table below) must accompany the NOI and is based on total acreage to be disturbed by an entire project, including any associated construction support activities (e.g. equipment staging yards, material storage areas, excavated material disposal areas, borrow or waste sites). There is no fee for sites less than 1 acre.

<b>Acres Disturbed</b>	= or > 150 acres	= or > 50 < 150 acres	= or > 5 < 50 acres	= or > 1 < 5 acres
<b>Fee</b>	\$7,500	\$4,000	\$1,000	\$250

**Who must submit the NOI form?** Per Section 2 of the permit, all site operators must submit an NOI form. “Operator” for the purpose of this permit and in the context of stormwater associated with construction activity means any person associated with a construction project who meets either or both of the following two criteria: (1) The person has operational or design control over construction plans and specifications, including the ability to make modifications to those plans and specifications. This person is typically the owner or developer of the project or a portion of the project (e.g. subsequent builder), or the person that is the current land owner of the construction site. This person is considered the primary permittee; or (2) The person has day-to-day operational control of those activities at a project which are necessary to ensure compliance with a SWPPP for the site or other permit conditions. This person is typically a contractor or a commercial builder who is hired by the primary permittee, and is considered a secondary permittee.

Owners, developers and all contractors that meet the definition of the operator in subsection 2.2 of the permit shall apply for permit coverage on the same NOI, insofar as possible. After permit coverage has been granted to the primary permittee, any subsequent NOI submittals must include the site’s previously assigned permit tracking number and the project name. The comprehensive site-specific SWPPP shall be prepared in accordance with the requirements of part 3 of the permit and must be submitted with the NOI unless the NOI being submitted is to only add a contractor (secondary permittee) to an existing coverage.

**Notice of Coverage** The division will review the NOI for completeness and accuracy and prepare a notice of coverage (NOC). Stormwater discharge from the construction site is authorized as of the effective date of the NOC.

**Complete the form** Type or print clearly, using ink and not markers or pencil. Answer each item or enter “NA,” for not applicable, if a particular item does not fit the circumstances or characteristics of your construction site or activity. If you need additional space, attach a separate piece of paper to the NOI form. **The NOI will be considered incomplete without a permit fee, a map, and the SWPPP.**

**Describe and locate the project** Use the legal or official name of the construction site. If a construction site lacks street name or route number, give the most accurate geographic information available to describe the location (reference to adjacent highways, roads and structures; e.g. intersection of state highways 70 and 100). Latitude and longitude (expressed in decimal degrees) of the center of the site can be located on USGS quadrangle maps. The quadrangle maps can be obtained at the USGS World Wide Web site: <http://www.usgs.gov/>; latitude and longitude information can be found at numerous other web sites. Attach a copy of a portion of a 7.5 minute quad map, showing location of site, with boundaries at least one mile outside the site boundaries. Provide estimated starting date of clearing activities and completion date of the project, and an estimate of the number of acres of the site on which soil will be disturbed, including borrow areas, fill areas, stockpiles and the total acres. For linear projects, give location at each end of the construction area.

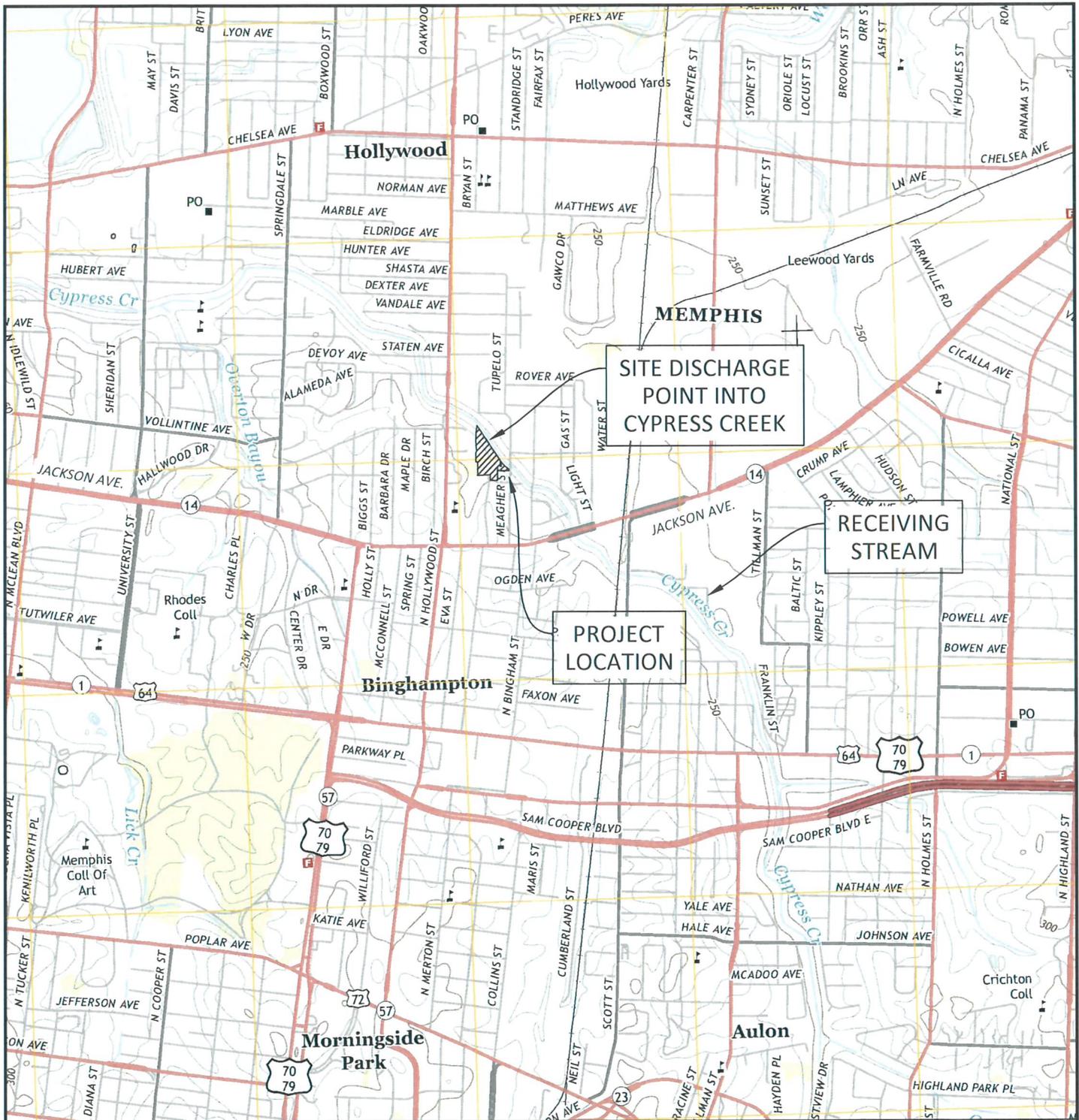
**Give name of the receiving waters** Trace the route of stormwater runoff from the construction site and determine the name of the river(s), stream(s), creek(s), wetland(s), lake(s) or any other water course(s) into which the stormwater runoff drains. Note that the receiving water course may or may not be located on the construction site. If the first water body receiving construction site runoff is unnamed (“unnamed tributary”), determine the name of the water body that the unnamed tributary enters.

**ARAP permit may be required** **If your work will disturb or cause alterations of a stream or wetland, you must obtain an appropriate Aquatic Resource Alteration Permit (ARAP).** If you have a question about the ARAP program or permits, contact your local Environmental Field Office (EFO).

**Submitting the form and obtaining more information** Note that this form must be signed by the company President, Vice-President, or a ranking elected official in the case of a municipality, for details see subpart 2.5. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed NOI form (keep a copy for your records) to the appropriate EFO for the county(ies) where the construction activity is located, addressed to **Attention: Stormwater NOI Processing.**

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	540 McCallie Avenue STE 550	37402-2013
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601

## A.2 Quad Map Exhibit



**FIGURE 1**  
**QUAD MAP EXHIBIT**



Not To Scale

*Springdale Creek Apartments*

1300' North of the intersection of  
Springdale Run Drive & Jackson Avenue

Memphis, Shelby County, Tennessee

**WOMBLE**  
ENGINEERING, LLC  
324 West Valley, Suite 107  
Hernando, MS 38632  
901.604.0904

### **A.3 Twice Weekly Inspection Report**



## Construction Stormwater Inspection Certification Form (Twice-Weekly Inspections)

### Purpose of this form/ Instructions

An inspection, as described in section 3.5.8.2. of the General Permit for Stormwater Discharges from Construction Activities (“Permit”), shall be performed at least twice every calendar week and documented on this form. Inspections shall be performed at least 72 hours apart. Where sites or portion(s) of construction sites have been temporarily stabilized, or runoff is unlikely due to winter conditions (e.g., site covered with snow or ice), such inspection only has to be conducted once per month until thawing results in runoff or construction activity resumes.

Inspectors performing the required twice weekly inspections must have an active certification by completing the “Fundamentals of Erosion Prevention and Sediment Control Level I” course. (<http://www.tnepsc.org/>). A copy of the certification or training record for inspector certification should be kept on site.

Qualified personnel, as defined in section 3.5.8.1 of the Permit (provided by the permittee or cooperatively by multiple permittees) shall inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural control measures, locations where vehicles enter or exit the site, and each outfall.

Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the site’s drainage system. Erosion prevention and sediment control measures shall be observed to ensure that they are operating correctly.

Outfall points (where discharges leave the site and/or enter waters of the state) shall be inspected to determine whether erosion prevention and sediment control measures are effective in preventing significant impacts to receiving waters. Where discharge locations are inaccessible, nearby downstream locations shall be inspected. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.

Based on the results of the inspection, any inadequate control measures or control measures in disrepair shall be replaced or modified, or repaired as necessary, before the next rain event if possible, but in no case more than 7 days after the need is identified.

Based on the results of the inspection, the site description identified in the SWPPP in accordance with section 3.5.1 of the Permit and pollution prevention measures identified in the SWPPP in accordance with section 3.5.2 of the Permit, shall be revised as appropriate, but in no case later than 7 days following the inspection. Such modifications shall provide for timely implementation of any changes to the SWPPP, but in no case later than 14 days following the inspection.

All inspections shall be documented on this Construction Stormwater Inspection Certification form. Alternative inspection forms may be used as long as the form contents and the inspection certification language are, at a minimum, equivalent to the division’s form and the permittee has obtained a written approval from the division to use the alternative form. Inspection documentation will be maintained on site and made available to the division upon request. Inspection reports must be submitted to the division within 10 days of the request.

Trained certified inspectors shall complete inspection documentation to the best of their ability. Falsifying inspection records or other documentation or failure to complete inspection documentation shall result in a violation of this permit and any other applicable acts or rules.

**A.4 Notice of Termination (NOT)**



**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)**

Division of Water Pollution Control (WPC)

6<sup>th</sup> Floor Annex, L&C Tower, 401 Church Street, Nashville, Tennessee 37243

1-888-891-TDEC (8332)

**Notice of Termination (NOT) for General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)**

This form is required to be submitted when requesting termination of coverage from the CGP. The purpose of this form is to notify the TDEC that either all stormwater discharges associated with construction activity from the portion of the identified facility where you, as an operator, have ceased or have been eliminated; or you are no longer an operator at the construction site. Submission of this form shall in no way relieve the permittee of permit obligations required prior to submission of this form. Please submit this form to the local WPC Environmental Field Office (EFO) address (see table below). For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC).

**Type or print clearly, using ink and not markers or pencil.**

<b>Site or Project Name:</b>	<b>NPDES Tracking Number: TNR</b>
Street Address or Location:	County(ies):

<b>Name of Permittee Requesting Termination of Coverage:</b>			
Permittee Contact Name:		Title or Position:	
Mailing Address:		City:	State: Zip:
Phone: (      )		E-mail:	

**Check the reason(s) for termination of permit coverage:**

<input type="checkbox"/>	Stormwater discharge associated with construction activity is no longer occurring and the permitted area has a uniform 70% permanent vegetative cover OR has equivalent measures such as rip rap or geotextiles, in areas not covered with impervious surfaces.
<input type="checkbox"/>	You are no longer the operator at the construction site (i.e., termination of site-wide, primary or secondary permittee coverage).

**Certification and Signature: (must be signed by president, vice-president or equivalent ranking elected official)**

I certify under penalty of law that either: (a) all stormwater discharges associated with construction activity from the portion of the identified facility where I was an operator have ceased or have been eliminated or (b) I am no longer an operator at the construction site. I understand that by submitting this notice of termination, I am no longer authorized to discharge stormwater associated with construction activity under this general permit, and that discharging pollutants in stormwater associated with construction activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that the submittal of this notice of termination does not release an operator from liability for any violations of this permit or the Clean Water Act.

For the purposes of this certification, elimination of stormwater discharges associated with construction activity means that all disturbed soils at the portion of the construction site where the operator had control have been finally stabilized, the temporary erosion and sediment control measures have been removed, and/or the site or portions of the site have obtained permit coverage by subsequent operators or that all stormwater discharges associated with construction activities from the identified site that are authorized by a NPDES general permit have otherwise been eliminated from the portion of the construction site where the operator had control.

Permittee name (print or type):	Signature:	Date:
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EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett, TN	38133	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305	Chattanooga	540 McCallie Avenue STE 550	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601

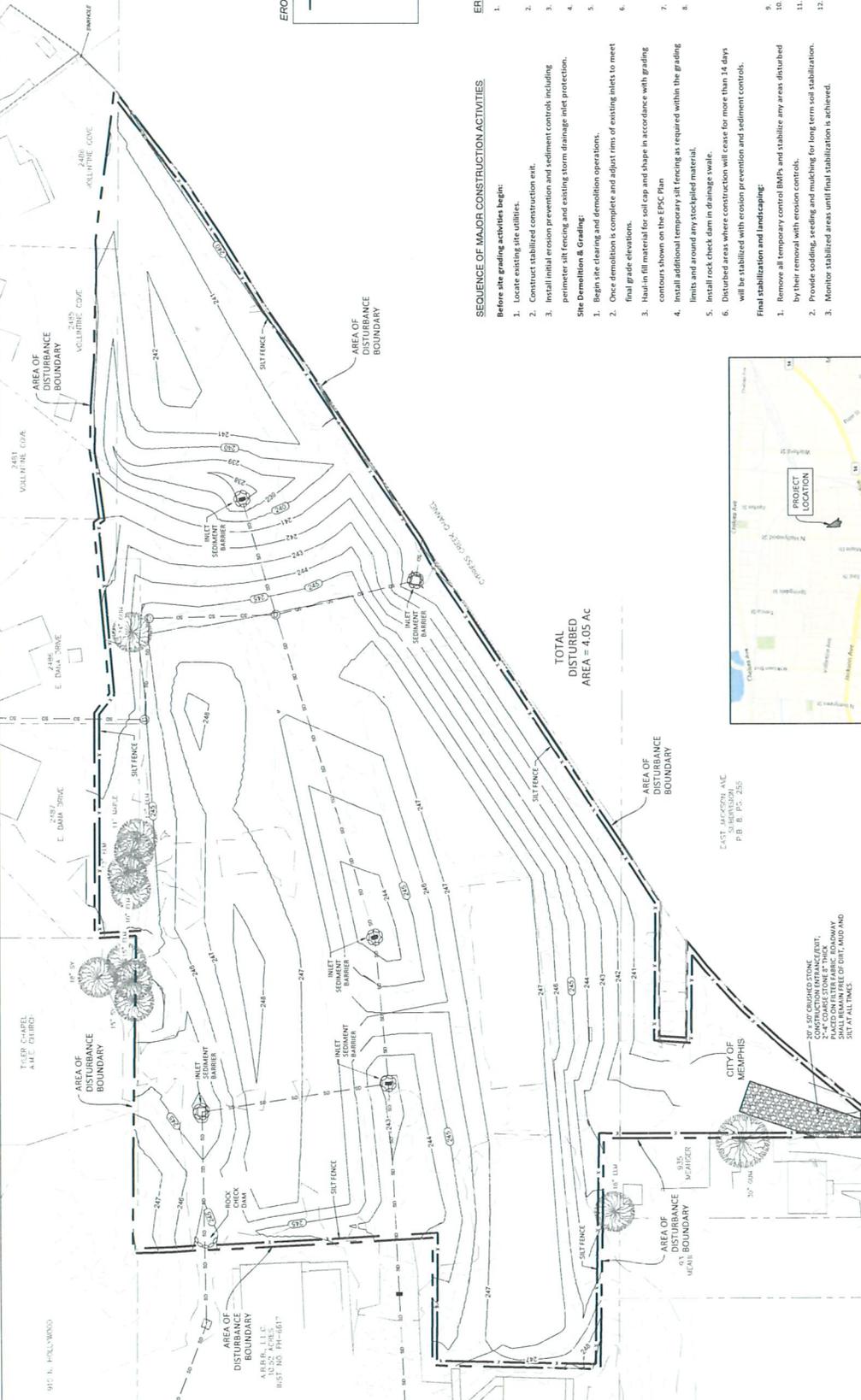
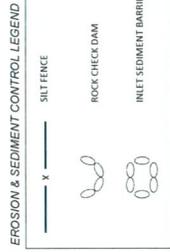
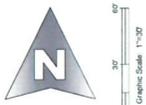
## **A.5 DRAWINGS:**

Erosion Prevention & Sediment Control Plan – Phase 1 (Sheet 1 of 3)

Erosion Prevention & Sediment Control Plan – Phase 2 (Sheet 2 of 3)

Erosion Prevention Sediment Control Details (Sheet 3 of 3)





**SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES**

Before site grading activities begin:

1. Locate existing site utilities.
  2. Construct stabilized construction exit.
  3. Install initial erosion prevention and sediment controls including perimeter silt fencing and existing storm drainage inlet protection.
- Site Demolition & Grading:**
1. Begin site clearing and demolition operations.
  2. Once demolition is complete and adjust rims of existing inlets to meet final grade elevations.
  3. Haul-in fill material for soil cap and shape in accordance with grading contours shown on the EPSC Plan
  4. Install additional temporary silt fencing as required within the grading limits and around any stockpiled material.
  5. Install rock check dam in drainage swale.
  6. Disturbed areas where construction will cease for more than 14 days will be stabilized with erosion prevention and sediment controls.

**Final Stabilization and Landscaping:**

1. Remove all temporary control BMPs and stabilize any areas disturbed by their removal with erosion controls.
2. Provide sodding, seeding and mulching for long term soil stabilization.
3. Monitor stabilized areas until final stabilization is achieved.

**EROSION CONTROL NOTES**

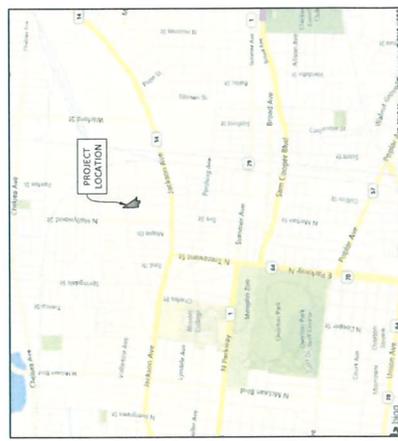
1. All erosion and sediment controls shall be constructed and maintained in accordance with the Tennessee Erosion & Sediment Control Handbook, 4th Edition.
2. The contractor shall be responsible for maintaining all storm water controls.
3. Inspection of erosion control devices shall be frequent and repair or replacement shall be made promptly as needed.
4. Erosion control devices shall be installed on all exposed slopes and appropriate tree of seed, debris, and sediment from the construction site, separately protected by a silt fence encompassing the base of the pile, at a minimum.
5. Within 14 days of the delay of construction activities in any area of the site, or if construction activities will be halted for more than 14 days, temporary or permanent vegetative cover shall be established in those areas.
6. Final stabilization must be established within 14 days of completing land stabilizing construction activities.
7. The erosion control notes shown on this plan are the minimum initial erosion prevention measures. The contractor is responsible for providing additional erosion prevention measures as needed to meet the protection requirements outlined in the Tennessee Erosion & Sediment Control Handbook, 4th Edition. Sequencing of construction is the responsibility of the contractor. The contractor shall adjust/modify erosion prevention measures as needed.
8. All silt fence shall be "Type B".
9. Silt fence shall be removed when it is no longer functional, or as not to block or impede the flow of water. Silt fence shall be disposed of in an approved site in a manner that will not contribute to additional siltation.
10. Accumulated silt shall be removed when it reaches approximately 1/7 the height of the fence & disposed of in an approved spot fill.

MISSISSIPPI  
 TENNESSEE N.D.J.E.S. PERMIT  
 FOR  
 STORM WATER DISCHARGE  
 EFFECTIVE DATE: \_\_\_\_\_  
 TRACKING NO. \_\_\_\_\_

ITEM NO.	REVISION DESCRIPTION OF CHANGE	APPROVAL DATE



**EROSION PREVENTION & SEDIMENT CONTROL PLAN**  
 PHASE 2  
 SPRINGDALE BUILDING - 1007 NORTH OF JACKSON AVENUE  
 MEMPHIS, TN  
 DATE: MAY, 2015 PROJECT: WE15-005 SCALE: 1"=30'  
 PREPARED BY: PDC/WOMBLE JOINT VENTURES  
 CLIENT: VESCOL CHEMICAL LLC  
 1007 NORTH OF JACKSON AVENUE  
 MEMPHIS, TENNESSEE 38118



VICINITY MAP (N15)

EAST JACKSON AVE  
 P.B. P. 255

20" x 50" CRUSHED STONE  
 2" MAX. SIZE  
 PLACED ON FILTER FABRIC ECONOMY  
 2" MAX. SIZE  
 2" MAX. SIZE  
 SILT AT ALL TIMES

EXISTING TREES AND UTILITIES AT  
 CONSTRUCTION INTERFERE AT  
 THROUGHOUT CONSTRUCTION

CITY OF  
 MEMPHIS

MEAGHER STREET

TOTAL  
 DISTURBED  
 AREA = 4.05 AC

