

CHRISTIAN COUNTY, MISSOURI
STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

FOR BUILDING & GRADING PROJECTS DISTURBING 1 OR MORE ACRES

PART I GENERAL PROJECT INFORMATION

(To be completed by OWNER or CONSULTANT)

PROJECT NAME: _____

PROPERTY OWNER'S NAME: _____

ADDRESS: _____

CITY: _____ **STATE:** _____ **ZIP:** _____

PHONE #: _____ **FAX #:** _____

MAIL: _____ **MOBILE #:** _____

GENERAL DESCRIPTION OF PROJECT: *(NOTE: attach 8.5" x 11" location map)*

LOCATION OF PROJECT: *(NOTE: legal description of property must be attached or shown on site plan.)*

PART II PROJECT PLANNING & DESIGN

(To be completed by CONSULTANT)

CONSULTANT'S NAME: _____

COMPANY: _____

ADDRESS: _____

CITY: _____ **STATE:** _____ **ZIP:** _____

PHONE #: _____ **FAX #:** _____

NOTE: Site plan must be submitted with SWPPP

SOIL DISTURBING ACTIVITIES for this project will include the following:

(Check all those which apply)

- Clearing and grubbing of existing vegetation
- Stripping of topsoil within the limits of construction
- Stockpiling and re-spreading topsoil
- Utility trench excavation and backfill
- Preparing subgrade for streets and sidewalks
- Backfilling curbs and sidewalks
- Construction of sediment basins and stormwater detention
- Disposal areas for excess excavated material
- Borrow areas for fill material
- Construction of compacted fill areas for residential building construction
- Other (specify): _____

NOTE: Limits of land disturbance must be clearly shown on the erosion and sediment control plan (shading is preferred).

TOTAL SITE AREA: _____ acres

ESTIMATED AREA to be disturbed by all activities: _____ acres

NOTE: Attach State Operating Permit if area to be disturbed is 1 acre(s) or more.

RUNOFF COEFFICIENT prior to development: _____

RUNOFF COEFFICIENT after development: _____

DESCRIBE AND IDENTIFY the location of any storm water discharge associated with industrial activity other than construction at the site-includes storm water discharges from dedicated asphalt and concrete plants: _____

CONTROLS TO REDUCE pollutants from these materials (if applicable): _____

NAME OF RECEIVING water: _____ **CLASS** _____

DISTANCE FROM PROJECT outfall to receiving water: _____ feet

*NOTE: If outfall discharges to more than one receiving water body, attach information for each outfall. If discharge is to a sinkhole, list **groundwater** as the receiving water, and submit a **Sinkhole Evaluation** report.*

ENDANGERED or threatened species/critical habitats on or near the project? _____

IF YES, describe the species and/or critical habitat: _____

IF YES, describe steps taken to address the impact of construction: _____

HISTORIC SITES on or near the construction site? _____

IF YES, describe steps taken to address the impact of construction: _____

CONSTRUCTION SITE BEST MANAGEMENT PRACTICES

(Check all which will apply)

SOIL STABILIZATION BMPs:

- | | |
|---|--|
| <input type="checkbox"/> Scheduling | <input type="checkbox"/> Preservation of Existing Vegetation |
| <input type="checkbox"/> Hydraulic/Wood Mulch | <input type="checkbox"/> Geotextiles, ECBs, or TRMs |
| <input type="checkbox"/> Hydroseeding | <input type="checkbox"/> Earth Dikes/Swales & Lined Ditches |
| <input type="checkbox"/> Soil Binders | <input type="checkbox"/> Outlet Protection/Velocity Dissipator |
| <input type="checkbox"/> Straw Mulch | <input type="checkbox"/> Streambank Stabilization |
| <input type="checkbox"/> Slope Drains | <input type="checkbox"/> Other (specify) _____ |

TEMPORARY SEDIMENT CONTROL BMPs:

- | | |
|---|--|
| <input type="checkbox"/> Silt Fence | <input type="checkbox"/> Sediment/Desilting Basin |
| <input type="checkbox"/> Sediment Trap | <input type="checkbox"/> Check Dam |
| <input type="checkbox"/> Fiber Rolls | <input type="checkbox"/> Gravel Bag Berm |
| <input type="checkbox"/> Sandbag Barrier | <input type="checkbox"/> Street Sweeping and Vacuuming |
| <input type="checkbox"/> Storm Drain Inlet Protection | <input type="checkbox"/> Other (specify) _____ |

WIND EROSION & TRACKING CONTROL BMPs:

- | | |
|--|---|
| <input type="checkbox"/> Wind Erosion Control | <input type="checkbox"/> Stabilized Entrance/Exit |
| <input type="checkbox"/> Entrance/Outlet Tire Wash | <input type="checkbox"/> Other (specify) _____ |

NON-STORM WATER MANAGEMENT BMPs:

- | | |
|---|--|
| <input type="checkbox"/> Water Conservation Practices | <input type="checkbox"/> Paving and Grinding Operations |
| <input type="checkbox"/> Dewatering Operations | <input type="checkbox"/> Illicit/Illegal Discharge Detection |
| <input type="checkbox"/> Temporary Stream Crossing | <input type="checkbox"/> Vehicle and Equipment Cleaning |
| <input type="checkbox"/> Clear Water Diversion | <input type="checkbox"/> Vehicle and Equipment Fueling |
| <input type="checkbox"/> Potable Water/Irrigation | <input type="checkbox"/> Vehicle and Equipment Maintenance |
| <input type="checkbox"/> Pile Driving Operations | <input type="checkbox"/> Material/Equipment Use Over Water |
| <input type="checkbox"/> Concrete Curing | <input type="checkbox"/> Demolition/Removal Over Water |
| <input type="checkbox"/> Concrete Finishing | <input type="checkbox"/> Other (specify) _____ |

WASTE MANAGEMENT & MATERIALS POLLUTION CONTROL BMPs:

- | | |
|--|---|
| <input type="checkbox"/> Spill Prevention/Control | <input type="checkbox"/> Material Delivery/Storage/Use |
| <input type="checkbox"/> Stockpile Management | <input type="checkbox"/> Contaminated Waste Management |
| <input type="checkbox"/> Concrete Waste Management | <input type="checkbox"/> Hazardous Waste Management |
| <input type="checkbox"/> Solid Waste Management | <input type="checkbox"/> Sanitary/Septic Waste Management |
| <input type="checkbox"/> Liquid Waste Management | <input type="checkbox"/> Other (specify) _____ |

PERMANENT STABILIZATION BMPs:

- | | |
|--|--|
| <input type="checkbox"/> Concrete Channel Lining | <input type="checkbox"/> Vegetative Buffers |
| <input type="checkbox"/> Sod Channel Lining | <input type="checkbox"/> Concrete Channel Lining |
| <input type="checkbox"/> Riprap Channel Lining | <input type="checkbox"/> Other (specify) _____ |

NOTE: Attach specifications and details for any of the items listed above, which do not have specifications and details shown on the attached **Site Plan**.

NOTE: All temporary BMPs must be in place before construction can begin.

NOTE: Additional controls maybe added upon inspection.

GENERAL DESCRIPTION of stormwater management plan: _____

GENERAL SEQUENCE of construction: (*NOTE: Describe the general sequence/phasing of construction. Address any critical construction sequences, time restrictions, etc. of which the contractor must be aware in planning his activities.*)

PART III CONSTRUCTION PHASE
(To be completed by GENERAL CONTRACTOR)

GENERAL CONTRACTOR'S NAME: _____

ADDRESS: _____
CITY: _____ **STATE:** _____ **ZIP:** _____
PHONE #: _____ **FAX #:** _____
E-MAIL: _____ **MOBILE #:** _____

*NOTE: The General Contractor must designate a **SEDIMENT CONTROL OFFICER**, who has primary responsibility for ensuring compliance with the Stormwater Pollution Prevention Plan (SWPPP) during construction.*

NAME OF SEDIMENT CONTROL OFFICER: _____

PHONE #: _____ **FAX #:** _____
E-MAIL: _____ **MOBILE #:** _____

SUBCONTRACTORS: Check all land disturbance items for which subcontractors are to be used and attach list of all subcontractor's names.

- | | |
|----------------------------|------------------------------------|
| _____ Grading | _____ Sanitary sewers |
| _____ Storm sewers | _____ Concrete drainage structures |
| _____ Paving | _____ Curb and gutter |
| _____ Concrete flatwork | _____ Sediment controls |
| _____ Seeding and mulching | _____ Water |
| _____ Gas | _____ Electric |
| _____ Blasting | _____ Other (specify) _____ |

LIST ALL ADDITIONAL SUBCONTRACTORS used on the project whose scope of work includes land disturbance activities (keep list updated throughout project):

_____	_____
_____	_____
_____	_____
_____	_____

OTHER CONTRACTORS: List utility companies, which will be doing work on the site with their own contractors, and any other contractors involved with land disturbance:

Telephone: _____
Cable TV: _____
Other: _____

BLASTING: List all contractors who will perform blasting work or handle explosives. Attach insurance certificates for all contractors on this list.

IMPORTANT RECORDED DATES-to be filled in during construction activities:

Major grading activities begin: (dates) _____
Construction temporarily or permanently ceased: (dates) _____
Stabilization measures initiated: (dates) _____

SEQUENCE OF CONSTRUCTION: The General Contractor **MUST** complete the following sequence of construction for land disturbance before approval will be given.

ITEM	SUBCONTRACTOR
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____
6. _____	_____
7. _____	_____
8. _____	_____
9. _____	_____
10. _____	_____
11. _____	_____
12. _____	_____

PART IV MAINTENANCE PHASE AND GENERAL PRACTICES
(To be understood and completed by DEVELOPER AND GENERAL CONTRACTOR)

THE DEVELOPER:

The maintenance phase covers the period between the time that the subdivision improvements (streets, storm drainage facilities and utilities) are completed and approved, and the time that construction of residential housing units in the development is completed. The Developer will retain responsibility unless written notification is given to lot purchasers informing them that the Developer is transferring responsibility for sediment and erosion control to them prior to the sale of the lots. *(For sites with a State Operating Permit, an Individual Lot Certification must be submitted to MDNR for each lot.)*

In most instances it will be more practical for the developer to maintain sediment controls for the entire site rather than to attempt to provide sediment controls on a lot by lot basis. If the Developer elects to do this he must designate a **SEDIMENT CONTROL OFFICER** who has primary responsibility for ensuring compliance with the Stormwater Pollution Prevent Plan during this phase.

DEVELOPER, WILL _____ WILL NOT _____ retain responsibility for sediment and erosion control during this phase.

NAME OF SEDIMENT CONTROL OFFICER: _____
PHONE #: _____ **FAX #:** _____
E-MAIL: _____ **MOBILE #:** _____

PERFORMANCE QUARANTY: Prior to approval of the subdivision improvements, the Developer must submit a Security Agreement to guarantee his performance for the following items during this phase:

1. Maintenance of sediment controls specified on the Soil and Erosion Control Plan to remain in place during this phase. These will typically include the sediment basin or basins, vegetative buffers, silt barriers, or temporary diversions.
2. Cleaning sediment from the sediment basin and final establishment of vegetative cover in the basin.
3. Cleaning accumulated sediment from storm sewers and other drainage facilities.

MATERIAL INVENTORY-check items stored outside on the site during construction:

- _____ Pipe, fittings, and joint compounds for underground utility piping
- _____ Gravel and stone bedding
- _____ Concrete forming materials
- _____ Other (specify) _____

***NOTE:** Fuels, oils, and other petroleum products; forming oils and compounds; fertilizers; pesticides; or any other hazardous or toxic compounds shall not be stored outside on the site unless specifically approved in this plan.*

SPILL PREVENTION/Material Management Practices

- **PETROLEUM PRODUCTS:** All vehicles kept on the site will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers, which are clearly labeled. Any asphalt substances used on-site will be applied according to the manufacturer's recommendations.
- **FUELING AND SERVICING:** No fueling, servicing, maintenance, or repair of equipment or machinery may be done within 50 feet of a stream, or within 100 feet of a classified stream, losing stream or sinkhole.
- **MUD TRACKING:** A minimum of one temporary construction entrance is required at each site. Additional temporary entrances may be provided if approved. The location of each construction entrance shall be shown on the plan. Only construction entrances designated on the sediment and erosion control plan may be used. Barricades shall be maintained if necessary to prevent access at other points until construction is complete.
- **CONCRETE TRUCKS:** Concrete trucks will be allowed to wash only in locations where discharge is directed to a sediment basin.
- **DISPOSAL OF OIL:** No fuels, oils, lubricants, solvents, or other hazardous materials can be disposed of on the site. All hazardous material must be properly disposed of in accordance with Missouri State law.
- **TRASH/SOLID WASTE:** The General Contractor is responsible for disposing of all solid waste from the site in accordance with Missouri State law. Dumpsters or other collection facilities must be provided as needed. Solid waste may not be buried on the site.
- **SANITARY WASTE:** The General Contractor is responsible for providing sanitary facilities on the site. Sanitary waste may be disposed only in locations having a Missouri State permit.
- **OTHER DISCHARGES:** Water for pressure testing sanitary sewers, flushing water lines, etc. may be discharged only in approved areas.

AIR EMISSIONS

- **BURNING:** Any burning on the site requires a permit from the Missouri Department of Natural Resources. Call the Southwest Regional Office at (417) 891-4300.
- **DUST CONTROL:** The Contractor is required by Missouri State law to control fugitive dust blown from the site. Dust can be minimized by stabilizing areas with mulch as soon as possible. Watering must be provided in unstabilized areas. Fugitive dust emissions are regulated by the Department of Natural Resources. Call the Southwest Regional Office at (417) 891-4300 for guidance.

HAZARDOUS PRODUCTS

- Products will be kept in original containers unless they are not resealable. If product is transferred to a new container, it must be properly marked and labeled.
- Original labels and material safety data will be retained.
- If surplus product must be disposed of, disposal must be done in accordance with Missouri State law.

OTHER GOOD HOUSEKEEPING PRACTICES: In addition to the previously mentioned standard practices, the following good housekeeping practices will be followed during the construction of the project:

- An effort will be made to store only enough products to do the job.
- All materials stored on-site will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
- Products will be kept in their original containers with the manufacturer's label.
- Whenever possible, all of a product will be used up before disposing of the container in accordance with Missouri State law.
- Manufacturer's recommendations for proper use and disposal will be followed.
- The site superintendent shall inspect daily to ensure proper use, storage, and disposal of materials.
- Fertilizers will be applied only in the minimum amounts recommended by the manufacturer.
- All paint containers will be tightly sealed and stored when not required for use. Excess paint will not be dumped into the storm sewer system, but will be properly disposed of according to manufacturer's instructions and Missouri State law.

SPILL CONTROLS: In addition to the good housekeeping practices and material management practices listed in the previous sections of this plan, the following practices will be followed for spill cleanup:

- The Erosion Control Officer will be the spill prevention and cleanup coordinator.
- Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- Material and equipment necessary for spill cleanup will be kept in the material storage area on-site. Equipment and materials will include, but not be limited to; brooms, dust pans, mops, rags, gloves, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- The permittee or his authorized representative is required to notify the MoDNR Environmental Emergency Response in accordance with 40 CFR 117 and CFR 302 as soon as they have knowledge of the discharge of any hazardous substance or petroleum product in excess of the reportable quantity.
- The spill prevention plan will be adjusted to include measures to prevent this type of spill from re-occurring and how to clean up the spill if there is another one.

SAMPLING REQUIREMENTS

There are no sampling requirements required as a part of this plan.

ALLOWABLE NON-STORM WATER DISCHARGES: You are authorized for the following non-storm water discharges, provided the non-storm water component of the discharge is free of pollutants and is in compliance with federal, state, and local laws:

- Fire hydrant flushing
- Waters used to wash vehicles where detergents are not used
- Water used to control dust
- Potable water, including uncontaminated water line flushings
- Routine external building wash down that does not use detergents
- Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used
- Uncontaminated air conditioning or compressor condensate
- Uncontaminated ground water or spring water
- Foundation or footing drains where flows are not contaminated with process materials such as solvents
- Uncontaminated excavation dewatering
- Landscape irrigation

NOTE: Non-storm water discharges should be eliminated/reduced to the extent feasible.

PART V CERTIFICATION
(To be completed by ALL PARTIES)

CONSULTANT'S DECLARATION

I hereby declare that the site plan, location map, and information contained in Part II of this SWPPP has been prepared under my direction or supervision in accordance with the Green County's Regulations, and applicable State and Federal Regulations and that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

CONSULTANT: _____

By: _____ **Title:** _____

Date: _____

OWNER'S CERTIFICATION

I hereby certify, that I am the owner of the property described in this plan, or their legally authorized agent, and that I assume full responsibility for the performance of the operation stated in this plan.

OWNER: _____
By: _____ **Title:** _____
Date: _____

GENERAL CONTRACTOR'S CERTIFICATION

I hereby certify that I understand the requirements stated in this plan, that I am responsible for completing the requirements set forth in this SWPPP and shown on the site plan, and that I am responsible for the performance of the subcontractors listed in the plan.

GENERAL CONTRACTOR: _____
By: _____ **Title:** _____
Date: _____

SUBCONTRACTOR'S CERTIFICATION

(All subcontractors performing land disturbance activities must sign)

I hereby certify that I understand the requirements stated in this SWPPP, that I am responsible for completing the requirements, which have been listed in the plan as being a part of my scope of work.

SUBCONTRACTOR: _____
By: _____ **Title:** _____
Date: _____

Responsible For: _____

SUBCONTRACTOR: _____
By: _____ **Title:** _____
Date: _____

Responsible For: _____

SUBCONTRACTOR: _____
By: _____ **Title:** _____
Date: _____

Responsible For: _____

SUBCONTRACTOR: _____
By: _____ **Title:** _____
Date: _____

Responsible For: _____

SUBCONTRACTOR: _____

By: _____ **Title:** _____

Date: _____

Responsible For: _____

SUBCONTRACTOR: _____

By: _____ **Title:** _____

Date: _____

Responsible For: _____

REMINDER

- The SWPPP must remain on-site until the site has been closed out
- A copy of the permit and/or NOI needs to be attached to the SWPPP
- Any update or modification to reflect change at the site effecting discharge, or where inspections identify SWPPP/BMPs as ineffective, needs to be attached to the SWPPP.
- Any additional federal, state, or local permits need to be attached to the SWPPP.
- The SWPPP, as well as all supporting documentation (permits, inspection reports, addendums to the SWPPP, location map, site plan, NOI/NOT, etc.), must be retained for three (3) years.
- SWPPPs are dynamic documents, which can be changed during the construction process. The goal of SWPPPs is to keep sediment on project sites and assure water quality standards. If BMPs or procedures are not attaining this goal, then the SWPPP may be changed or updated in order to better address specific conditions.

Revised 05/20/2008

