



**USAID/OTI NIGERIA LAKE CHAD BASIN PROGRAM
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)**

Table of Contents

Purpose of The Storm Water Pollution Prevention Plan (SWPPP)	1
Site Map	2
General Site Information	3
Existing Site Conditions	4
List of Possible Contaminants Associated With Construction	5
Best Management Practices (BMPs)	6
Erosion and Sediment Control BMPs	6
Site Housekeeping BMPs	7
Post Construction BMPs	8
Inspections and Records	9

Purpose of The Storm Water Pollution Prevention Plan (SWPPP)

The purpose of the SWPPP is to identify potential pollutant sources that may affect the quality of discharges associated with construction activity; to identify non-storm water discharges, and to design the use and placement of Best Management Practices (BMPs) to effectively prohibit the entry of pollutants from the construction site into the storm drain system (or otherwise directly or indirectly to downstream water courses) during construction. Generally, the principal pollutant from construction sites is sediment—which can flow to downstream watercourses and impact their flow regimes and quality.

Erosion and sediment source control BMPs must be considered for both active and inactive (previously disturbed) construction areas. BMPs for wind erosion and dust control are also included. The SWPPP will likely require modification as the project progresses and as conditions warrant.

This abbreviated SWPPP had been developed for use in Nigeria by engineers, contractors, and field staff.

Additional information regarding storm water pollution management, and on specific BMPs used to control erosion and sediment movement, can be found at websites of the U.S. Environmental Protection Agency (EPA) such as [at this site](#) and [this site](#).

Site Map

Include a site map that indicates flow patterns and on site watercourses, if any. Locations for Best Management Practice structures can be indicated. Hand drawing on a site map is acceptable.

General Site Information

Project/Grant Title:
Project/Grant Number:
Name of Contractor:
Location:
Type of Construction: Public Building (e.g., school) <input type="checkbox"/> Commercial Building <input type="checkbox"/> Industrial Facility <input type="checkbox"/> Road Construction <input type="checkbox"/> Water Supply or Irrigation <input type="checkbox"/> Other (describe)
Brief Description Type/Scope of Work:
Date Work Began:
Name/Position/Company of Person Who Completed SWPPP:
Signature:
Date SWPPP Prepared:

Existing Site Conditions

Total Size of Project Site (Hectares):
Total Size of Proposed Development (Hectares):
Drainage Patterns Marked on Map / Drawing: Yes <input type="checkbox"/> No <input type="checkbox"/> Comments
Vegetation: Approximate Percentage of Vegetation Coverage on Site: Types of Vegetation: Light Scrub <input type="checkbox"/> Heavy Bush <input type="checkbox"/> Forest Cover <input type="checkbox"/> (Check more than one if necessary)
Description of Site Sensitive Features, such as wildlife regions, historic or cultural sites, if any:

List of Possible Contaminants Associated With Construction

Material	Description	Stormwater Pollutants	Location
Pesticides, insecticides, fungicides, herbicides, rodenticides	Various colored to colorless liquids, powder, pellets, grains	Chlorinated hydrocarbons, organophosphates, carbamates, arsenic	Herbicides used for noxious weed control
Fertilizer	Liquid or solid grains	Nitrogen, phosphorous	Newly seeded areas
Plaster	White granules or powder	Calcium sulphate, calcium carbonate, sulfuric acid	Home construction
Cleaning solvents	Colorless, blue or yellow-green liquid	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates	(No equipment cleaning should take place on project site)
Asphalt	Black solid	Oil, petroleum distillates	Streets and roofing
Concrete	White solid/gray liquid	Limestone, sand, pH, chromium	Building construction
Glue, adhesives	White or yellow liquid	Polymers, epoxies	Home construction
Paints	Various colored liquids	Metal oxides, solvents, talc, calcium carbonate	Home construction
Curing compounds	White liquid	Naphtha	Road works/sidewalks
Wood preservatives	Clear amber or dark brown liquid	Solvents, petroleum distillates, arsenic, copper, chromium	Home construction and porches
Hydraulic oil/fluids	Brown oily petroleum hydrocarbon	Mineral oil	Leaked fluids
Gasoline/Petrol	Colorless, pale brown or pink petroleum hydrocarbon	Benzene, ethyl benzene, toluene, xylene, MTBE	Leaks or fueling
Diesel Fuel	Clear, blue-green to yellow liquid	Coal oil, petroleum distillates	Leaks or fueling
Kerosene	Pale yellow liquid petroleum hydrocarbon	Coal oil, petroleum distillates	Lanterns, fueling
Sanitary toilets	Various	Bacteria, parasites, viruses	Construction area

Best Management Practices (BMPs)

Erosion and Sediment Control BMPs

Erosion controls are structural and non-structural means to keep sediment in place on the site, or to capture it before it leaves site, so that it does not flow to downstream watercourses to impact their quality or flow characteristics.

Minimize disturbed area and protect natural features and soil	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments
Implement construction activities in 'phases'	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments
Control storm water flowing onto or through site	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments
Stabilize soils	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments
Protect slopes	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments
Protect storm drain inlets	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments
Establish perimeter controls and sediment barriers	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments
Retain sediment on site	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments
Establish construction site exits that are 'stabilized'	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments
Inspect the site and maintain written logs	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments

Site Housekeeping BMPs

These practices are designed to prevent contamination of stormwater from a range of materials and wastes that may be on site.

Establish waste management practices and materials handling methods	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments
Establish building material 'staging' areas	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments
Designate washout areas (for concrete mixers, etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments
Establish equipment/vehicle fueling and maintenance methods and practices	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments
Control equipment/vehicle washing and allowable non-stormwater discharges	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments
Develop and spill prevention and response plan	Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Comments

Post Construction BMPs

Describe post-construction BMPs that have been adopted. These could include the use of structural BMPs, outlet protection measures, infiltration basins, earth dikes, detention devices, slope protection, vegetated strips or swales.

Description of post-construction BMPs to be implemented, and name of who will be responsible for maintaining:

Inspections and Records

Inspections of compliance with this SWPPP should be made during routine site inspections by engineers or monitoring staff, and compliance/non-compliance and training and instruction given to contractors should be recorded also.