

STORM WATER POLLUTION PREVENTION PLAN

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Montana Department of
ENVIRONMENTAL QUALITY

WATER PROTECTION BUREAU

Permit No.:

Date Rec'd
Amount Rec'd
Check No.
Rec'd By

FORM
SWPPP

**Storm Water Pollution Prevention Plan (SWPPP) Form
Storm Water Discharge Associated With Construction Activity
MTR100000**

READ THIS BEFORE COMPLETING FORM: Before completing this form all parties need to read the General Permit, particularly Part IV on SWPPPs. This SWPPP Form is intended to assist operators in developing a SWPPP which complies with Part IV of the General Permit. The term "Storm Water Pollution Prevention Plan" is defined in the Administrative Rules of Montana 17.30.1002(31). The SWPPP is a document which is developed to direct and assist permittees in identifying sources of potential pollutants at the construction activity site, and Best Management Practices (BMPs) to be used to help ensure such pollutants do not impact receiving surface waters through storm water runoff. It is the permittee's responsibility to ensure all required items in the General Permit are adequately addressed, and that the SWPPP is developed, implemented, and maintained. Additional narrative information may need to supplement this SWPPP Form in order to meet these requirements. A copy of the SWPPP must be maintained at the construction activity site as required in Part III.C. of the General Permit. Sections B, C, and D on this SWPPP Form must state information exactly the same as that indicated on the NOI Form. Attach additional pages as necessary with the item number on this form indicated. For coverage under the General Permit to be valid upon the submittal of a NOI package, the NOI package must include a complete NOI Form, SWPPP, and fee. Do not submit these items separately. The 2007 General Permit, 2002 Fee Schedule, and related forms are available from the Storm Water Program at (406) 444-3080 or <http://www.deq.state.mt.us/wqinfo/MPDES/StormwaterConstruction.asp>.

Section A - SWPPP Status (Check one):

- New No prior SWPPP submitted for this site.
 Modification Permit Number: MTR10 ____ (Please specify these four numbers)

Section B - Facility or Site Information:

Site Name West Entrance Station
Site Location Project is located at the West Entrance to Glacier National Park.
Nearest City or Town West Glacier, MT County Flathead

Section C - Applicant (Owner/Operator) Information:

Owner or Operator Name Western Federal Lands Highway Division, FHWA
Mailing Address 610 East Fifth St.
City, State, and Zip Code Vancouver, WA 98661
Phone Number (360) 619-7700

Section D - General SWPPP Requirements: I-4

1. Brief Description of Purpose and Nature of Construction Activity:

The West Entrance Station is the primary entrance to the park from the west and receives heavy use during the summer months. The existing entrance station provides two lanes of incoming visitor traffic, and one lane for administrative access. This is often insufficient to handle traffic volumes during peak summer months due to the narrow approach to the entrance station, which causes lengthy vehicle backup. Improved traffic management at the West Entrance Station is needed to facilitate visitor entry and prevent long vehicle lines. The project consists of improving traffic circulation and access through the West Entrance Station by the following:

- Widen the West Entrance Station approach road from about the Park Headquarters turnoff to approximately 275 feet past the entrance station to allow for the addition of a new inbound lane. This widening will be approximately 1900 feet long and 12 feet wide.
- Construct a lane island at the entrance station that will accommodate an automated access system.
- Two lights on the east end of the entrance station will be relocated approximately 14 feet further east to accommodate the road widening.
- Underground power lines will be installed to provide power to the lane island and the relocated lights.
- Traffic loop counters will be installed in the existing pavement north of the entrance station and the conduit accessing these loop counters will run adjacent to the roadway and connect to the existing east kiosk.
- An underdrain system will be installed adjacent to the roadway from approximately Station 16+70 to 20+30 (approximately 360 feet). Also, the culvert at Station 20+40 will be extended approximately 5 feet to the east to accommodate the road widening.
- Traffic signs and striping will be updated to accommodate traffic needs.

2. Proposed Implementation Schedule for Major Activities. In addition to major activities, include the estimated dates for the start and completion of the construction project, as well as the estimated date final stabilization will be completed. :

1. clearing and grubbing
2. grading
3. drainage
4. surfacing
5. utility installation
6. signing and striping

Erosion control measures will be incorporated into the project as needed during construction.

Project start date: 04-01-2008

Completion date: 6-13-2008

Estimated final stabilization date: 9-30-2010

3. Estimate of Total Area of the Site (and all other sites if a phased development project):

Estimated total area of the project is 0.8 acres.

4. Estimate of Total Area of the Site Expected to Undergo Disturbance Related to Construction Activity:

Estimated total disturbance is 0.8 acres.

5. Check to confirm a site map has been developed and included with this SWPPP which indicates all required information stated in Part IV.G.1.c. of the General Permit: Yes

6. Are sand & gravel excavation, other borrow areas, and/or crushing operations associated with project?

Yes No (Borrow material will be obtained from a commercial source outside the NPS boundary. The Contractor will locate this commercial source.)

Are temporary asphalt batch plant operations associated with this project?

Yes No (The Contractor may decide to use a temporary batch plant outside the NPS boundary. The

Contractor would have to locate a staging area or commercial source to set up their batch plant.)

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If yes, be sure to include the requested information about these areas on the site map, or a similar separate map, as stated in Part IV.G.1.c. of the General Permit.

7. Describe the character and erodibility of soil and other earth material to be disturbed at the project site, including cut/fill material to be used:

The existing subsurface soils are generally granular glacial deposits of silty sand and sandy silt. These soils are not highly erodable due to the character of the existing material and topography. Existing material will be excavated as necessary and waste material will be hauled outside the Park. Suitable material will be imported into the Park to construct the bypass lane embankment.

8. Estimate of Runoff Coefficient and Increase In Impervious Area (refer to Part IV.G.1.e. of the General Permit - only applies if total construction-related disturbance is 5 acres or more):

Not Applicable.

9. Indicate Names of Receiving Waters and Describe the Size, Type, and Location of each Point Source Discharge or Outfall (refer to Part IV.G.1.f. of General Permit):

The outfall location is not well defined and there are no well defined drainages extending from the construction area. The project area is relatively flat consisting of general ephemeral drainage that makes its way to the Middle Fork Flathead River approximately 0.23 mile to the southwest.

10. Describe Storm Water Discharges From Support Activities (refer to Part IV.G.1.g. of General Permit):

To minimize the possibilities of potential spills, hazardous material containment procedures approved by the Project Engineer will be placed prior to the beginning of the operation. The Contractor will be required to develop a Spill Prevention, Containment, and Countermeasure (SPCC) Plan or Hazardous Spill Plan to prevent pollution related to Contractor operations and to satisfy all pertinent requirements of Federal, state, and local laws and regulations. This plan will specify that no toxicant (including petroleum products) will be stored within 30 meters (100 feet) of the top of bank of any stream. Areas for fuel storage, and for refueling and servicing of construction equipment and vehicles, will be located at least 30 meters (100 feet) from water bodies.

There will be no work in live water. The drainage ditch, underdrain system, and culvert are to provide drainage for storm water runoff (See attached plans). These areas are dry most of the year and water will not require diversion. BMPs will be utilized to help contain sediment until construction of the drainage ditch, underdrain system, and culvert is complete and vegetation is reestablished.

The construction site will be inspected at least once every 7 calendar days, or within 24 hours of any storm event during which more than 12mm of rain falls. If the area has been temporarily stabilized, inspections must be conducted at least once a month. Implementation of corrective measures and changes to the plans will occur within 72 hours of inspection.

Section E - SWPPP BEST MANAGEMENT PRACTICES (BMPs) AND STORM WATER MANAGEMENT CONTROLS I-6

1. Describe Applicable Local Erosion and Sediment Control Requirements:

2. Describe in detail, temporary BMPs and storm water management controls which will be used for erosion and/or sediment control during construction-related earthwork activities. Indicate the location of these measures on the site map required above, or a similar separate map, as much as practicable. Include a schedule for implementation for each of these measures. Attached details and specifications may be used to supplement this description. Refer to Parts IV.G.2.a, b, c. of the General Permit. Examples of temporary measures could include but are not limited to: slope roughening; vegetative buffer strips; sediment control (silt) fences; straw bale dikes; erosion control blankets/mats; temporary drain diversions; minimizing clearing; temporary sediment basins/traps; mulching; temporary seeding; brush barriers; up-slope runoff diversions/controls; inlet/outlet protection; disturbance area runoff diversions/controls; waterway protection; and, ditch runoff flow dispersers (e.g. level spreaders)/flow inhibitors.

TEMPORARY STABILIZATION PRACTICES (see plan sheets F.1-F.3):

- Straw wattles
- Application of native seed (by Glacier National Park as consistent with the *Park Revegetation Plan*)
- Application of weed-free mulch as needed (by Glacier National Park as consistent with the *Park Revegetation Plan*)
- Application of tackifier as needed for stabilization of soil, seed, and mulch (by Glacier National Park as consistent with the *Park Revegetation Plan*)

The straw wattles will be installed prior to clearing, grubbing, or earthwork.

3. Describe in detail, permanent and structural BMPs and storm water management controls which will be used for erosion and/or sediment control during and after construction-related earthwork activities. These would include measures to achieve final stabilization (as defined in Part VI.8. of the General Permit). Indicate the location of these measures on the site map required above, or a similar separate map, as much as practicable. Attached details and specifications may be used to supplement this description. Refer to Parts G.2.a., b. of the General Permit. Examples of permanent measures could include but are not limited to: permanent seeding; check dams; retaining walls; drain inlet protection; rock outlet protection; drainage swales; sediment basin & traps; earth dikes; manmade erosion control structures; grassed waterways; sod stabilization; infiltration trenches or basins; subsurface drains; level spreader; terraced slopes; tree or shrub planting; pipe slope drains; vegetative buffer strips; detention ponds; and, containment ponds.

PERMANENT STABILIZATION PRACTICES (see plan sheets F.1-F.3 and G.1):

- Placement of topsoil
- Application of native seed (by Glacier National Park as consistent with the *Park Revegetation Plan*)
- Application of weed-free mulch as needed (by Glacier National Park as consistent with the *Park Revegetation Plan*)
- Application of tackifier as needed for stabilization of soil, seed, and mulch (by Glacier National Park as consistent with the *Park Revegetation Plan*)
- Construction of an underdrain system to catch stormwater runoff and direct it into the existing drainage system (see plan sheet G.1).
- A riprap energy dissipater will be placed at the outlet of the underdrain system to minimize erosion (see plan sheet G.1).

4. Describe what products or wastes may be stored or utilized at the construction activity site, indicate on the site map as required above, and indicate what BMPs will be used to minimize potential pollutants from these materials coming into contact with storm water runoff. Examples of products or wastes could include but is not limited to: fuels; tar or asphalt; cement or mortar; concrete truck wastewater; solvents; detergents; steel; roofing materials; fertilizers; paints; pesticides; other petroleum-based materials; other hazardous materials (including wastes); and, solid wastes.

Petroleum-based products (diesel, gasoline, asphalt cement and emulsified asphalt)

Pavement millings

Paints

Concrete

Fuel

Signs

Traffic control devices (cones, etc.)

Aggregate

Culvert

Petroleum: Stationary diesel and gasoline tanks will have containment berms lined with an impervious membrane.

Hazardous Materials: Labeled and stored in proper containers at least 30 meters (100 feet) from surface water streams.

SPPC Plan: Required prior to starting construction, stating what actions will be taken in case of a spill. This plan will also incorporate preventative measures to be implemented.

5. Describe any other good-housekeeping measures to be used to help minimize non-sediment pollutant contact with storm water runoff.

A Hazardous Spill Plan will be required prior to starting construction, stating what actions will be taken in case of a spill. This plan will also incorporate preventive measures to be implemented. Refueling and servicing equipment will not occur within 30 meters of a water body.

6. Describe any measures that will be used to prevent vehicle tracking of sediment from the construction site onto roads (examples include a graveled access entrance and exit drives and parking areas, and a tire wash pad at exit drive):

7. When trucking saturated soils from the site, either tight leak-proof trucks must be used or loads must be required to drain until drippage has been reduced to less than 1 gallon per hour before leaving the site. Will saturated soils be trucked from the site? Yes No

8. Describe man-made and natural measures to control pollutants in storm water discharges after construction operations have been completed. Refer to Part IV.K. of the General Permit. Examples include: vegetative waterways and natural landscape; infiltration trenches or basins; storm water detention structures; wet ponds or man-made wetlands; and, storm water containment structures.

Energy dissipaters

Vegetation control

Soil Stabilization measures

Turf establishment

9. BMPs must minimize or prevent "significant sediment" (as defined in Part V.T.13. of this General Permit) from leaving the construction site. If "significant sediment" (as defined in Part VI of this General Permit) results from the failure of erosion or sediment control measures, the material should be cleaned up and placed back on site, disposed of in an acceptable manner which minimizes any impact to state surface water. The sediment must not be washed into the storm sewer(s), drainageway(s), or receiving state surface waters. The permittee must document the clean-up action in accordance with the inspection and monitoring requirements of Part III.C of this permit. This requirement does not waive any obligations for the permittee to obtain other permits or permissions to clean up the "significant sediment."

Section F - Inspection and Maintenance

Describe inspection procedures and BMP maintenance procedures to ensure compliance with Part III.A. of the General Permit. As a part of this, describe measures to identify and address non-storm water discharges should they occur.

Inspections: Drainage structures, straw wattles, and locations where vehicles enter or exit the site will be inspected at least once every 7 calendar days, or within 24 hours of any storm event during which more than 12 mm of rain falls. If the area has been temporarily stabilized, inspections must be conducted at least once a month.

Inspections will be conducted jointly, and reports of the findings will be kept by the FHWA and the Contractor. Inspection reports will include a summary of the findings during the inspection, names and qualifications of personnel making the inspection, the date of the inspection, observations made and a list of corrective actions necessary. These reports will be signed by both the inspector and the Contractor's representative. Implementation of corrective measures and changes to the plans will occur within 72 hours of the inspection.

Temporary erosion and sediment control devices will be removed once final stabilization is complete.

Section G - CERTIFICATION**Permittee Information:**

This SWPPP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

Alternatively, this SWPPP may be signed by a duly authorized representative of the person above. A person is a duly authorized representative only if:

- The authorization is made in writing by a person described above;
- The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company (a duly authorized representative may thus be either a named individual or any individual occupying a named position);
- The written authorization is submitted to the department.

All Permittees Must Complete the Following 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 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. [75-5-633, MCA]

A. Name (Type or Print)

Terri L. Thomas

B. Title (Type or Print)

Environmental Manager

C. Phone No.

360-619-7967

D. Signature


Storm Water Pollution Prevention Plan

E. Date Signed

11-26-07

Project: MT PRA GLAC 10(27), Rehabilitate West Entrance Station