**Erosion and Sediment Control Plan (ESCP)**

ESCPs must be submitted to the 673 CES/CEIEC Water Quality Program Manager before land clearing, construction, or demolition activities begin. Water Quality Program Manager Office Phone: 384-6784

**Repairs of Parking Lot at Building XXXX Joint Base Elmendorf-Richardson**

Project: Repairs of Parking Lot at Building XXXX Location: Joint Base Elmendorf-Richardson

Size of Disturbance: 0.11 acres of gravel shoulders and area behind sidewalk repairs (site’s existing asphalt parking lot = 7,278 square yards)

Start Date: Completion Date:

Contractor Information (name, address, phone, fax, website):

## Contact Information (name & phone)

Site Superintendent: Project Manager: CESCL Manager:

## Site/Activity Description

The project is located on Joint Base Elmendorf-Richardson and involves the repair of the existing deteriorated parking lot and sidewalks/curbs. Deteriorated asphalt, sidewalks, and curbs will be removed. Any unsuitable soils will be excavated and new classified fill placed and a new asphalt wear course will be laid. Minimal soil disturbance is scheduled around perimeters to allow removal and replacement of parking areas. Best management practices (BMPs) will be installed at catch basin inlets and curb flow lines adjoining the project. Each catch basin will be isolated if repairs are required on them.

## Schedule

* Install Erosion Control BMPs
* Remove existing deteriorated sidewalks/curbs and asphalt
* Remove unsuitable sub base
* Adjust catch basin top
* Place classified material and compact
* Place D-1/RAP and asphalt wear course
* Final cleanup – grade and compact any disturbed gravel areas
* Removal of temporary BMPs

## Site Control Plan Elements

1. *Mark Clearing Limits*

Construction limits will be marked with paint and traffic devices. Existing vegetation and/or buffer zones will be preserved.

1. *Concrete Washout*

A stable and leak-proof concrete washout will be established. The washout will be inspected and maintained, especially before and after storm events. Washout water will not be disposed of on the ground or into storm drains.

1. *Control Flow Rate*

On-site detention, sediment will be collected and re-used on site.

1. *Install Sediment Controls*

Fiber rolls (wattles) will be used as a perimeter sediment control at low points to prevent any sediment from leaving the construction site.

1. *Stabilize Soils*

Temporary stabilization measures will be used on certain areas of the construction site if activity ceases in that area for more than 14 days. Stabilization measures uses will be compaction, mulching and/or seeding.

1. *Protect Drain Inlets*

All existing storm drains (inlets) shall be protected using straw wattles or equivalent.

1. *Stabilize Channels and Outlets*

Stabilizing channels and outlets is not anticipated.

1. *Control Pollutants*

The types of primary pollutants expected will be suspended solids, turbidity, and settle able solids from surface erosion of the active work area. Good housekeeping measures will be used to prevent construction materials, petroleum, oils, lubricants, and asphalt cement from entering the storm water runoff. There will be no onsite storage of fuels during this project.

1. *Manage Hazardous Materials and Wastes (including portable toilets)*

Any liquid, solid, or contained gas that has properties that are dangerous or potentially harmful to human health or the environment must be managed appropriately. Hazardous materials and wastes will be kept in properly labeled and sealed containers, and will be kept under cover and away from drainages and waterways. Portable toilets will be kept as far practicable from drainages, inlets, surface waters, and storm water conveyances. Portable toilets will be kept, whenever possible, on non-permeable surfaces and will be secured to the ground to prevent tipping.

1. *Control De-Watering*

Dewatering is not anticipated. If it is later determined that dewatering is needed, authorization under the AK Department of Environmental Conservation’s Excavation Dewatering General Permit may be necessary.

1. *Maintain BMPs*

BMPs used will be straw wattles, concrete clean outs (when needed), sweeper trucks, spill pads, drip pans, and a water truck to control air pollution. Spill kits will also remain on-site, will be restocked immediately after use, and will be inspected once every 7 days to ensure adequate spill response materials are available. Inspections will be performed every 7 days. Inspections will be performed by CESCL certified inspectors and all BMPs in place will be monitored for effectiveness and/or replacement.

1. *Manage the Project*

Each phase of activity will follow the sequence outlined in the schedule above. A site-specific Erosion and Sediment Control Plan will be posted on site and all workers will be briefed on the plan. An updated site map and completed inspection reports will be available at the job site.

Soil disturbance will be minimized and good housekeeping measures will be implemented. All BMPs will be updated appropriately as monitoring and inspection dictates.

## Attachments:

Attachment A – ESCP Construction Inspection Form Attachment B – Site Map

# Attachment A: ESCP Construction Inspection Report Form (Sample)

|  |
| --- |
| **General Project Information** |
| **Project name** | Repairs of Parking Lot at Building XXXX |
| **Location** | Joint Base Elmendorf-Richardson |
| **Date of Inspection** |  |
| **Inspector’s name(s)** |  |
| **Inspector’s title(s)** |  |
| **Inspector’s contact info** |  |
| **Describe present phase of construction** |  |
| **Type of inspection** | * 1st Inspection/start-up ☐ Weekly ☐ Pre-storm event
* During storm event ☐ Post-storm event ☐ Final
 |
| **Weather Information** |
| **Has it rained since the last inspection?**☐Yes ☐No**If yes, provide: Storm start date & time: Storm duration (hrs):****Approximate rainfall (in):** |
| **Weather at time of this inspection:** |
| **Is there evidence that erosion discharges have left the project site since the last inspection?**☐Yes ☐No |
| **Are there any erosion discharges leaving the project site at the time of inspection?**☐Yes ☐No |

|  |
| --- |
| **Site-Specific BMPs** |
|  | **BMP description/location** | **BMP installed & operating properly?** | **Corrective action needed** | **Date for corrective action/responsible person** |
| 1 | Curb flow line protection wattles | ☐Yes ☐No |  |  |
| 2 | Catch basin protection | ☐Yes ☐No |  |  |
| 3 |  Inlet protection | ☐Yes ☐No |  |  |
| 4 | Entry control point | ☐Yes ☐No |  |  |
| 5 | Spill kit on site | ☐Yes ☐No |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 6 | Water truck, sweeper (on-call on base) | ☐Yes ☐No |  |  |
| 7 | Are any additional BMPs needed? | ☐Yes ☐No |  |  |

Below are some general site issues that should be assessed during inspections.

|  |
| --- |
| **Overall Site Issues** |
|  | **BMP/activity** | **Implemented** | **Maintained** | **Corrective Action** | **Date for corrective action / responsible person** |
| 1A | Are stabilization measures initiated on slopes/disturbed areas not actively being worked? | ☐Yes ☐No | ☐Yes ☐No |  |  |
| 1B | If no, will the disturbed areas be worked in 14 days? | ☐Yes ☐No | ☐Yes ☐No |  |  |
| 2 | Are perimeter controls and sediment barriers adequately installed and maintained? | ☐Yes ☐No | ☐Yes ☐No |  |  |
| 3 | Are discharge points and receiving waters free of sediment deposits? | ☐Yes ☐No | ☐Yes ☐No |  |  |
| 4 | Are storm drain inlets properly protected? | ☐Yes ☐No | ☐Yes ☐No |  |  |
| 5A | Is there evidence of sediment being tracked into the street? | ☐Yes ☐No | ☐Yes ☐No |  |  |
| 5B | Are the BMPs to avoid tracking being maintained? | ☐Yes ☐No | ☐Yes ☐No |  |  |
| 6 | Is trash/litter from work areas collected and placed in covered dumpsters? | ☐Yes ☐No | ☐Yes ☐No |  |  |
| 7 | Concrete, drywall, or masonry washout facilities on site? | ☐Yes ☐No | ☐Yes ☐No |  |  |
| 8 | Are vehicles and equipment fueling, cleaning, and maintenance areas free of spills and leaks? | ☐Yes ☐No | ☐Yes ☐No |  |  |
| 9 | Has spill response kit been used since the last inspection? If yes, is it restocked? | ☐Yes ☐No | ☐Yes ☐No |  |  |
| 10 | Are non-storm water discharges (e.g., wash water, dewatering) properly controlled? | ☐Yes ☐No | ☐Yes ☐No |  |  |
| 11 | Are the ESCP and site maps: Up to date?Available at JBER central locations? Being implemented? | ☐Yes ☐No | ☐Yes ☐No☐Yes ☐No |  |  |
| 12 | Inspection performed every 7 calendar days? | ☐Yes ☐No | ☐Yes ☐No |  |  |
| 13 | Are inspections being performed by qualified individuals? | ☐Yes ☐No | ☐Yes ☐No |  |  |

## Certification statement:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

## Contractor’s Inspector/

**Superintendent Representative**

Name: Title: Signature: Date:

## Contractor’s Duly Authorized

Name: Title: Signature: Date:

# Attachment B: Site Map