

**SECTION 01 57 23**  
**TEMPORARY STORM WATER POLLUTION PREVENTION**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. State requirements for controlling discharges of pollutants (including chemicals, erodible material, and trash) from municipal separate storm sewer systems (MS4), construction sites, and industrial activities, were brought under the Arizona Department of Environmental Quality (ADEQ) *General Permit for Stormwater Discharges Associated with Construction Activity to Protected Surface Waters* (CGP, 2020). This permit is for stormwater discharges that enter Arizona surface waters or a MSR leading to Arizona surface waters and are associated with construction activities that disturb 1 or more acres of land. This Project is anticipated to impact more than 1 acre of land which would comply through the ADEQ CGP.
- B. The work of this section consists of implementing measures to prevent discharges of pollutants, including temporary storm water pollution during construction activities, through compliance with ADEQ CGP permit program.
- C. Work of this section consists of implementing measures to Temporary Storm Water Pollution during construction activities, through compliance with ADEQ CGP permit program.

**1.2 DEFINITIONS**

- A. Definitions pertaining to sustainable development: As defined in ASTM E2114.
- B. ADEQ CGP: Regulates construction activities that disturb 1 or more acres of land, or construction activities that will disturb less than 1 acre but are part of a larger common plan of development or sale that will ultimately disturb 1 acre or more.
- C. Environmental Pollution and Damage: The presence of chemical, physical, or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balances; or degrade utility of the environment for aesthetic, cultural, or historical purposes.
- D. No Discharge Certification (NDC): The NDC is an option product for facilities that do not discharge stormwater associated with construction activities to Waters of the U.S. This means construction activities that are exposed to stormwater and could demonstrate that they do not discharge stormwater, do not need coverage under ADEQ's CGP and may qualify for the optional NDC.

- E. Notice of Intent (NOI): Initial application for projects which are required to comply with the ADEQ CGP. Submitted through myDEQ. Application fees are based on the number of acres being disturbed during construction activities.
- F. SWPPP: Developed and implemented stormwater management measures to protect surface water from pollutants during construction activities disturbing an acre or more in compliance with federal, state, and local requirements for permit approval under ADEQ CGP program.

### 1.3 SUBMITTALS

#### A. Action Submittals:

1. After Contract award and before pre-construction conference, prepare and submit:
  - a. A NOI which includes a SWPPP that satisfies federal and ADEQ CGP requirements, as applicable.
  - b. NDC, as applicable.

#### B. Informational Submittals:

1. Inspection Schedule: Submit schedule for inspection and monitoring of pollution prevention measures.
2. Erosion Control Products: Submit manufacturer's product information and installation recommendations for silt fence, filter fabric, erosion control blanket, coconut husk wattles, and other materials proposed for use on this Project.
3. Contracting Officer Notification.

### 1.4 QUALITY ASSURANCE

- A. Contractor shall prepare and submit a plan to Contracting Officer (CO) for review and concurrence.
- B. Contractor shall be responsible for arranging and conducting Pollution Prevention, Erosion, and Sediment Control meeting/briefing to inform parties scheduled to be onsite during Project of measures to be implemented for proper pollution prevention and control (may be included as part of Pre-Construction Meeting).
  1. Installation of silt fences, storm drain protection, and other forms of pollution prevention, erosion, and sediment controls shall not begin until after this meeting has occurred.

- C. Pollution Prevention and Erosion Control Manager: Contractor shall designate Pollution Prevention and Erosion Control Manager who will be responsible for implementation, inspection, maintenance, and amendments to approved plan.
1. Pollution Prevention and Erosion Control Manager shall be familiar with temporary storm water pollution prevention procedures and BMPs and shall ensure emergency procedures and plan are updated as needed and available for inspection.
  2. When changes in approved plan are required, Pollution Prevention and Erosion Control Manager shall prepare and certify an amendment and submit to Contracting Officer for review and concurrence.
  3. Pollution Prevention and Erosion Control Manager will conduct documented routine inspections of BMPs and implement any corrective measures required.

## **PART 2 PRODUCTS**

### **2.1 UNDER-AN-ACRE POLLUTION PREVENTION PLAN**

- A. Not applicable.

### **2.2 TEMPORARY STORM WATER POLLUTION PREVENTION PLAN (AS APPLICABLE)**

- A. Provide SWPPP which satisfies federal and state ADEQ CGP requirements. The SWPPP will be submitted as part of the NOI through myDEQ, and includes:
1. Site description.
  2. Identification and Contract information for Pollution Prevention and Erosion Control Manager.
  3. Expected sequencing of operations and construction schedule.
  4. Weather monitoring procedure.
  5. Descriptions and details Best Management Practices for of pollution prevention and erosion controls, including dust control.
  6. Pollution prevention and erosion control plans.
  7. Controls for other potential onsite storm water pollutants.
  8. Applicable specifications.
  9. Maintenance and inspection procedures and forms.
  10. Description of potential non-storm water discharges at Site.
  11. Contractor and Subcontractor Certification forms.
  12. Other record keeping forms and procedures.
  13. Spill prevention and control plan.
  14. Housekeeping Best Management Practices, including vehicle wash-down areas, protection of equipment storage and maintenance areas, and sweeping of roadways related to hauling activities.
- B. Provide submittal for facilities that do not discharge stormwater to Waters of the U.S.

## **PART 3      EXECUTION**

### **3.1      ENVIRONMENTAL PROTECTION**

- A. Protection of Natural Resources: Comply with applicable regulations and these specifications. Preserve natural resources within Project boundaries and outside limits of work performed under this Contract in their existing condition or restore to an equivalent or improved condition as approved by Contracting Officer.
- B. Construction Zone: Arrange construction activities to minimize pollution (i.e., erosion, trash, etc.) to maximum practical extent.
  - 1. Clearing, excavation, and grading shall be limited to those areas of Project Site necessary for construction. Minimize area exposed and unprotected.
  - 2. Clearly mark and delineate limits of work activities.
  - 3. Equipment shall not be allowed to operate outside limits of work or to disturb existing vegetation.
  - 4. Excavation and grading shall be completed during dry season to maximum extent possible.
  - 5. Material shall be stored away from locations where water is present to greatest extent practicable.

### **3.2      REGULATORY REQUIREMENTS**

- A. Permits: Contractor shall obtain required ADEQ CGP permits resulting in no impacts to scheduled work. Contractor shall account for possibility of significant lead time in scheduling and executing work.
  - 1. Implement requirements of ADEQ CGP permit for erosion control due to storm water runoff during construction.
  - 2. Implement good housekeeping practices, inspections and record keeping.
  - 3. Prior to construction, Contractor and Subcontractors shall sign certifications (included in the plan) that they understand requirements of ADEQ CGP permit.
  - 4. Subcontractors shall comply with requirements of ADEQ CGP under supervision of Contractor.
  - 5. Accepted plan shall comply with terms and conditions of ADEQ CGP permit.
- B. Notice of Intent (NOI): Contractor shall file a NOI and formal SWPPP as required to the Agency(ies) through myDEQ.
- C. Prepare the NDC and submit to Arizona DEQ for certification. Once certified, myDEQ will issue a No Discharge Certificate electronically via email. The certificate will be made readily available onsite at all times during ground disturbing activities. The certification will also be submitted to the Contracting Officer.

D. Contracting Officer Notification:

1. Contractor shall notify Contracting Officer in writing and by telephone of these events:
  - a. Erosion and sediment control meeting/briefing.
  - b. Following installation of required sediment control structures.
  - c. Prior to removal of or modification to sediment control structures.
  - d. Prior to removal of sediment control structures.

3.3 TEMPORARY STORM WATER POLLUTION PREVENTION PLAN

A. Review and Acceptance: Contractor and Contracting Officer will jointly review draft SWPPP or NDC and agree to needed revisions. Contractor shall incorporate revisions, sign, and submit final SWPPP or NDC to Contracting Officer. Final SWPPP will be the document enforced on the Project.

1. Accepted SWPPP will describe and ensure implementation of practices to be used to reduce pollutants in storm water discharges.
2. Contractor shall maintain current copy of SWPPP and associated records and forms at Job Site throughout duration of Project.
3. SWPPP shall be available for public inspection and inspection and use of Contracting Officer.
4. Approval of Contractor's SWPPP will not relieve Contractor of responsibility for compliance with applicable environmental regulations.

B. Implementation: Implement SWPPP as required throughout construction period and maintain erosion control elements in proper working order.

1. Do not perform clearing and grubbing or earthwork until SWPPP has been implemented.

C. SWPPP (including inspection forms) and data used to complete the NOI shall be provided to Contracting Officer after Substantial Completion of Project.

3.4 UNDER-AN-ACRE POLLUTION PREVENTION PLAN

1. Not applicable.

3.5 SITE INSPECTIONS AND PLAN REVISIONS

A. Inspections: Contractor and Contracting Officer will perform a weekly inspection onsite.

1. Inspection shall include disturbed areas not completely stabilized, areas used for storage of materials, locations where vehicles enter or exit Site, and other erosion and sediment controls included in the Plan.

2. Inspections shall be documented.
  3. Inspection forms shall be retained onsite in Plan notebook throughout construction period.
- B. Plan Revisions: It may be necessary to revise Plan during construction to make necessary improvements, revisions, or to respond to unforeseen conditions noted during construction or Site inspections.
1. Plan shall specify mechanism whereby revisions may be proposed by Contractor or Contracting Officer.
  2. Contractor and Contracting Officer will jointly review each revision to Plan before changes incorporated and implemented. Contractor will then provide revised copy of Plan to Contracting Officer.
  3. Accepted modifications will be implemented within 7 calendar days following date of inspection when deficiencies or necessary corrections are first noted.
- C. Negligence: Provide additional temporary erosion and pollution controls made necessary by Contractor's errors or negligence at no additional cost to Government.

### 3.6 HOUSEKEEPING AND SITE MANAGEMENT

- A. Store materials onsite in conformance to federal, state, local, and manufacturer's regulations and specifications. Use Best Management Practices to minimize risk of materials coming into contact with environmental conditions (i.e., water and wind) that could disperse them.
- B. Manage solid waste in conformance to federal, state, and local regulations. BMPs should be used to minimize risk of materials coming into contact with environmental conditions (i.e., water and wind) that could disperse them.
- C. Include spill prevention and control in the SWPPP.
- D. Manage hazardous waste (including contaminated soil) in conformance to federal, state, local, and NPS regulations and guidelines.

### 3.7 EROSION CONTROL MEASURES

- A. Erosion control measures shall consist of Best Management Practices for storm water discharges, including silt fencing, barrier protectors, coconut husk wattles, temporary soil retention blankets, excelsior drainage filters, sediment traps and berms.
- B. Berms and excelsior drainage filters shall be used to form sediment traps and control run-on and run-off into other areas, including creeks, streams, marshes, access roads, well areas, and staging areas.

- C. Erosion control measures shall be used to contain only direct precipitation in construction zone. Contained water shall be allowed to percolate into ground or drain slowly through drainage filter sediment traps.
- D. Earthen sediment traps or holding ponds shall not be used unless accepted by Contracting Officer.
- E. Reduce runoff velocity and direct surface runoff around and away from fuel containment, storage, and borrow areas.
- F. Divert surface runoff around and away from cut and fill slopes.
- G. Place drainage filters around catch basins to create sediment traps to control run-off from construction area.
- H. Excess water used for dust control shall be contained within demolition areas by erosion control measures.
- I. Contractor shall prevent deposition of materials onto paved areas. Contractor shall inspect paved areas for deposited materials weekly and remove materials immediately.
- J. Furnish, install, maintain, and operate necessary control measures and other equipment necessary to prevent erosion as described in approved SWPPP.
- K. Before work begins, sufficient equipment shall be available onsite to assure operation and adequacy of erosion control system can be maintained.

### 3.8 MAINTENANCE OF TEMPORARY FACILITIES

- A. Ensure erosion and sediment control structures remain effective throughout excavation and grading operations. Relocate structures as necessary.
- B. Inspect control structures after each significant rainfall. Promptly repair breaches which occur.
- C. Contractor shall remove entrapped sediment from behind excelsior drainage filter after each storm.

### 3.9 REPORTING

- A. If a discharge occurs or if Project receives written notice or order from regulatory agency, Contractor shall immediately notify Contracting Officer and shall file written report to Agency(ies) with Jurisdiction within 7 days of discharge event, notice, or

order. Corrective measures shall be implemented immediately following discharge, notice, or order. The report to the Agency(ies) with Jurisdiction shall contain:

1. Date, time, location, nature of operation, and type of discharge, including cause or nature of notice or order.
2. Best Management Practices deployed before discharge event, or prior to receiving notice or order.
3. Date of deployment and type of Best Management Practices deployed after discharge event, or after receiving notice or order, including additional Best Management Practices installed or planned to reduce or prevent re-occurrence.
4. An implementation and maintenance schedule for affected Best Management Practices.

### 3.10 SEDIMENT DISPOSAL

- A. Sediment excavated from temporary sediment control structures shall be disposed onsite with general fill, or with topsoil. Sediment shall be allowed to dry out as required before reuse.
- B. Contractor shall place sediment removed from traps and other structures where it will not enter a storm drain or watercourse and where it will not immediately reenter the basin.

### 3.11 REMOVAL OF UNDER-AN-ACRE POLLUTION CONTROL MEASURES

- A. Not applicable.

### 3.12 REMOVAL OF TEMPORARY STORM WATER POLLUTION CONTROL MEASURES

- A. Temporary control measures shall be removed with permission of Contracting Officer within 20 calendar days after final acceptance of Project, and/or once grading is complete and slopes have stabilized.

**END OF SECTION**