



City of Yuma Construction Site Runoff Control Program

June 28, 2018

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Introduction:

The City of Yuma recognizes the potential for construction site runoff into its MS4 and is committed to addressing this concern. The BMPs are targeted toward construction sites that disturb one or more of acres including sites less than one acre that are part of a common plan of development or sale. The Yuma City Code contains many references to erosion control and sediment transportation from construction sites, construction waste, and debris or dust generated from construction sites, therefore the City developed the construction site control runoff program.

Program Elements:

The City will implement this program to systematically reduce stormwater generated from construction sites to the MS4 or the Waters of the United States. Procedures of this program will be implemented to prevent and reduce discharges of stormwater runoff from construction sites to the MS4. As a minimum this program will include the following elements:

1. City Ordinance Number O2006-38 (Yuma City Code Chapter 156). This ordinance provides mechanism that requires the use of sediment and erosion control practices.
2. An inventory of all construction activities per the Introduction above.
3. Procedures for site inspections and enforcement of sediment and erosion control measures. Procedures of inspections and enforcement are detailed in Sections 156-08 and 156-09 of the Yuma City Code. Site inspection checklists are provided as appendix of this program. It is required that owners of construction projects or contractors are the responsible parties to perform site inspections. The City has the enforcement authority per Section 156-09 of the Yuma City Code. Section 4 of the SWMP also documents regulatory authority.
4. Inspection of construction sites for City Ordinance shall be every 14 calendar days and after any storm that drops 0.5” of precipitation. For sites within 0.25 miles from Colorado River inspection frequency is every 7 calendar days and after any storm that drops 0.5” of precipitation. The inspection checklist provided as a part of this program includes the following:
 - A. Phase of construction
 - B. Proximity to Colorado River
 - C. Size of construction activity; and
 - D. History of non-compliance of site operator
5. The Enforcement Response Plan (ERP) describes all follow-up actions such as re-inspection and enforcement) to ensure compliance.

6. Construction operators are required to implement sediment and erosion control best management practices (BMPs). In addition to the design requirements mentioned in Section 156-07 of the Yuma City Code, construction operators are required include the following:
 - A. Minimize the amount of disturbed area and protect natural resources;
 - B. Stabilize sites when projects are complete, or operations have temporarily ceased;
 - C. Protect slopes on the site of the construction activity;
 - D. Protect storm drain inlets and armor all newly-constructed outlets;
 - E. Use perimeter controls at the site;
 - F. Inspect stormwater controls and BMPs every 14 calendar days or after 0.5” of precipitation. For construction sites within 0.25 miles from the Colorado River inspection frequency is every 7 calendar days and after 0.5” of precipitation.
7. Construction operators are required to implement measures to control waste from construction sites falling under the umbrella of this program. Waste generated from construction sites includes but not limited to discarded building materials, paints, fertilizers, concrete wash out, chemicals, litter, and sanitary wastes. Construction waste shall be removed or retained on the construction sites without exposure to stormwater for a period not exceeding 14 calendar days.
8. Written procedures for plan review is available as part of this program.

Program Evaluation:

The City will utilize the ERP and the protocol of annual SWMP evaluation per Section 5.1.h to evaluate indicators of functionality of this program and track its success.

Responsible Departments and Personnel:

Responsible Departments: Engineering Department and Department of Community Development

Responsible Positions: Jeffrey Kramer, City Engineer & Randall Crist, Assistant Director of Community Development and Building Official.

Standard Operating Procedures (SOP)

This SOP describes the procedures that will be used to support Chapter 156 of Yuma City Code “Erosion and Sediment Control.” This SOP offers procedures for inspections and enforcement of control measures at construction sites that fall under the umbrella of Ordinance O2006-38. This SOP will be revised with the SWMP as necessary. For construction sites located within ¼ mile of

the impaired segment of Colorado River, refer to AMC No. 1 on this SWMP. The City will start implanting the following steps:

1. Prior to inspection, the City inspector will:
 - A. Contact owner/contractor superintendent or project manager
 - B. Bring camera, project file, and Personal Protective Equipment in accordance with City Policy.
 - C. Bring the SWPPP Construction Site Inspection Checklist for private development or CIP projects.
 - D. Review previous inspection reports to determine reoccurring problems
 - E. Identify if the project is located within ¼ mile of the Colorado River's impaired segment.

2. At the construction site, and before starting inspection, the City inspector will:
 - A. Ensure that the project information sign is installed per City Construction Standard No. 8-100 (Work Zone Identification Sign) with the AZPDES approval number and date.
 - B. Verify that SWPPP plans and narrative report, NOI and Permit No. AZG2013-001, as updated, are on site and accessible,
 - C. Verify that all routine inspections, required by Contractor, are conducted with reports available on site and accessible. Routine inspections are conducted every 14 calendar days and within 24 hours of a previous storm 0.5 inches or more
 - D. Review previous inspection reports to determine reoccurring problems,
 - E. Review SWPPP changes or modifications from last inspection and whether such changes and modifications are updated in the SWPP report and plans,
 - F. Review status of any corrective actions or deficiencies by State or City listed in the latest inspection report,
 - G. Discuss with the owner representative, Contractor superintendent or project manager any complaint or incident that has occurred after the latest inspection,

3. At the construction site the City inspector will, at minimum, perform the following:
 - A. Record time that inspection of BMPs starts and weather information such as temperature, rainfall within the last 72 hours, wind and clearness or cloudiness of sky.
 - B. Determine if the site has evidence of release of any discharge from its boundaries,

- C. Determine if all BMPs are installed correctly and maintained adequately per the SWPPP report and plans. BMPs include erosion control measures, sediment control measures and good housekeeping measures
 - D. Take photographs of BMPs. The photo must indicate date and time of inspection and comment on the BMP.
4. Before leaving the site, the City inspector will:
- A. Discuss with the owner, contractor or project manager of the SWPPP the effectiveness of current controls and if modifications are needed.
 - B. Identify a time frame for making modifications on site and SWPPP report and plans,
 - C. Discuss with the owner, contractor or project manager any compliance or enforcement issues.
5. As a follow up after inspection, the City inspector will:
- A. Check the adequacy of SWPPP Construction Site Inspection Checklist for private development.
 - B. Send documents to building inspectors for certificate of occupancy coordination.
 - C. City Engineering Inspectors will conduct SWPPP inspections per the CIP project Checklist. Records will be sent to City Engineer.
 - D. Follow up on corrective actions and SWPPP report and plans modifications; and
 - E. Contact City code enforcement and State for compliance and enforcement if needed.
6. City Engineer will evaluate the SOP and program effectiveness and update the SWMP, as needed.

**STORMWATER POLLUTION PREVENTION
PLAN REVIEW CHECKLIST
CITY OF YUMA ENGINEERING DEPARTMENT**

155 W. 14th Street
Yuma, Arizona 85364
Phone (928) 373-4500 Fax: (928) 373-4501

City Reference Ordinance Number O2006-38

Project Name _____

Application No. _____

Review Date _____

By: _____

<i>Ordinance No. O2006-38 Reference</i>	<i>Description</i>	<i>Location in SWPPP</i>	<i>For City Use</i>
156-04 C	Each application shall bear the name and address of the owner or developer of the site		
156-04 C	Identify the name of the consulting firm retained to design the SWPPP		
156-04 D	Each application shall include a statement any land clearing, construction, or development is in accordance with ESCP.		
156-05 A	Other types of water quality permits required.		
156-06 C	The ESCP shall include:		
	1. A map identifying soil type, vegetation cover and resources protected under this ordinance.		
	2. Temporary sediment basins if needed.		
	3. Temporary sediment basins shall be designed to contain the higher of either V = CPA or V = 3600 X Area		
	4. Construction schedule.		
	5. All erosion and sediment control measures necessary to meet this ordinance.		
	6. Sediment calculations		
	7. Soil conditions.		
	8. Provisions for maintenance of control facilities.		
	9. Statement that the ESCP is a part of the SWPPP required by the City.		

156-07 A	Grading, erosion and sediment control practices, and waterway crossings shall be constructed in accordance with the design criteria.		
156-07 B	Clearing and grading of natural resources shall be dealt with as per design criteria.		
156-07 C	Clearing shall not begin until all sediment control devices have been installed and have been stabilized.		
156-07 D	Phasing shall be required on all sites disturbing greater than 40 acres, with the size of each phase to be established as a part of the plan review process and as approved by the City Engineer.		
156-07 E	Erosion control requirements shall include:		
	1. Soil stabilization shall be completed within 14 days of clearing.		
	2. If seeding or another vegetative erosion control method is used, such erosion control method shall become established within 3 weeks.		
	3. Special techniques on steep slopes or in drainage ways shall be used to ensure stabilization. The techniques must meet the design criteria.		
	4. Soil stockpiles must be stabilized or covered at the end of each workday if a major storm is expected.		
	5. The entire site must be stabilized.		
	6. Techniques shall be employed to prevent dust blowing at the site.		
	7. Techniques that retard and divert upland runoff shall be employed.		
156-07 F	Sediment control requirements may include:		
	1. Sediment basins, traps or tanks.		
	2. Provision of long term stormwater management, if required.		
	3. Protection for site adjacent properties.		
156-07 G	Waterway and watercourse protection requirements shall include:		
	1. Temporary stream crossing must be installed.		
	2. Stabilization of the watercourse channel throughout construction.		

	3. All on-site stormwater conveyance channels must be designed as per requirements.		
	4. Techniques to prevent erosion at all outlets.		
156-07 H	Construction site access requirements shall include:		
	1. Temporary stabilized access road provided at all sites.		
	2. Other measures to ensure that sediment is not tracked onto public streets during construction.		
156-08 A	Site inspections for SWPPP compliance will be conducted.		
156-08 A	Plans for grading, stripping, excavating and filling work shall be maintained at the site during the progress of the work.		
156-08 B	Regular inspections in writing of all control measures as per approved SWPPP.		
156-08 D	An approved copy of SWPPP must be maintained at site at all times.		

**CITY OF YUMA
ENGINEERING DEPARTMENT**

Construction Site Inspection Checklist
Per City of Yuma Ordinance Number O2006-38

Project Name: _____

C.I.P. Number: _____

City PPR Number _____ for Private Development

AZCON Number: _____

Date & Time of Inspection: _____

Inspected By: _____

Inspection Frequency: Once every: (circle one) 7days 14 days After-storm

Weather at time of inspection: _____

Phase of Construction: _____

Proximity to Colorado River: _____ miles

Size of Construction: _____ acres

History of non-compliance of site operator: _____

No.	Description	Yes	No	N/A
1	Has there been an absence of rain since the last inspection?			
2	Are all significant erodible slopes protected from erosion through acceptable practices?			
3	Are all work areas reasonably clean and free from spills, leaks, or other deleterious materials?			
4	Are all BMPs identified in the SWPPP report installed in the proper location and according to specifications?			
5	Are all BMPs in good repair and maintained in functional order?			

6	Are all on-site traffic routes restricted to areas designated in the SWPPP for those uses?			
7	Is sediment, debris, or mud being cleaned from public roads at intersections with site access roads?			
8	SWPPP reflects current site conditions?			
9	Is entrance/exit maintaining the specified dimensions in the SWPPP and reasonably clean from sediment?			
10	Are storm drain inlets within the project's area properly protected from stormwater or any construction-related discharges?			
11	Is there any potential of discharge in the COY stormwater collection system or any other publicly-owned system?			
12	Is trash/litter from work areas collected and disposed of in covered dumpsters?			
13	Are storm drains inlet protection devices in good working order and being properly-maintained?			
14	Is there any evidence of illicit discharges or illegal dumping at the project's site?			
15	Do you suspect that discharges may have occurred since last inspection?			
16	Area additional BMPs required			
17	Are there any discharges at the time of the inspection?			

Description of Required Corrective Actions:

Recommendations: