

Stormwater Inspection Report

Permittee: Claremont Development, Inc.	Cert. No. COR-03 8148	Date: 11/16/06
Facility: Claremont Business Park	Industrial Type: Construction	Receiving Water: East Fork Sand Creek
Facility Address: SH 24 and Marksheffel Road; El Paso County, Colorado		
Persons present: Jerry Edmonds (Project Manager, Hammers Construction); Brenner Perryman (PG Environmental, LLC)		
Facility Representative(s)/Title(s): Jerry Edmonds (Project Manager, Hammers Construction)	Inspector(s): Scott Coulson (PG Environmental, LLC)	

Inspection Findings

Records Review

Note: The permit certification effective date was 05/03/2005. The date that construction started and land-disturbing activities began at the site was 05/12/2005.

1. A copy of the Stormwater Management Plan (SWMP) was retained onsite. The SWMP was reviewed during the inspection and found to be inadequate for the following reasons:
 - a. The section in the SWMP on Site Description did not provide a clear description of other potential pollution sources identified for the project (i.e., vehicle fueling and washing, solvents, sealants, waste storage etc.) as required by Part I.B.1.f of the permit. As provided by Jerry Edmonds (Project Manager, Hammers Construction), for example, a mobile fueling station is used for equipment fueling but this practice was not described in the SWMP. The SWMP must be updated to include this information.
 - b. The Site Map did not identify all areas used for storage of building materials, soils or wastes as required by Part I.B.2 of the permit. For example, the Site Map did not include the jobsite trailer and material storage area located near the southwest corner of Woolsey Heights. The Site Map must be updated to identify areas used for the storage of building materials, soils or wastes, and must reflect current facility conditions in the field.
2. Inspection records were available, but were inadequate, as they were not conducted as required in Part I.C.5 of the permit. Inspection records were not specific to the stormwater management system and did not document that all erosion and sediment control measures identified in the SWMP had been observed for proper operation. Furthermore, the form used for inspections did not include a structured format to facilitate documenting that all BMPs identified in the SWMP had been observed. Inspections must be documented in accordance with Part I.C.5 of the permit.

Note: Inspections must be conducted at least every 14 days and after any precipitation or snowmelt event that causes surface erosion, except during winter snow pack conditions where no melting is occurring, or when all construction activities are completed. During winter snow pack conditions where no melting is occurring, no inspections need to be conducted. When all construction activities are completed but final stabilization has not been achieved due to a vegetative cover that has been planted but has not become established, inspections must be conducted at least once a month.

Facility Inspection

Note: All Best Management Practices (BMPs) mentioned in the following findings must be installed according to the specifications and design criteria outlined in the SWMP. These specifications and design criteria must meet best engineering practice requirements.

3. It was observed during the inspection that inadequate BMPs were implemented to prevent the discharge of sediment from disturbed areas in the southwest portion of the site to the East Fork Sand Creek at a point located near the western corner of the proposed Cole View roadway. Overland flow from the southwest portion of the site is directed to this

point (see attached Photographs 1 and 2). Evidence of a previous runoff event discharging sediment from the site, beyond the BMPs, and to East Fork Sand Creek (State waters) was observed; including rill and small gulley formation along the streambank (see attached Photograph 3). Adequate BMPs must be implemented to prevent the discharge of sediment from disturbed areas in the southwest portion of the site into East Fork Sand Creek (State waters).

4. It was observed during the inspection that BMPs were not implemented to prevent the discharge of sediment from multiple soil stockpiles located along the length of the proposed Selix Grove roadway (see attached Photograph 4). As a result, there was a potential for sediment discharge from the stockpiles and transport toward a down-gradient access road located at the northwest perimeter of the site. Adequate BMPs must be implemented to prevent sediment discharge from the stockpiles and transport toward the access road.
5. It was observed during the inspection that inadequate BMPs were implemented to prevent the discharge of sediment from up-gradient areas to East Fork Sand Creek (State waters) along the access road located at the northwest perimeter of the site. Specifically, two areas of silt fence located down-gradient of the aforementioned soil stockpiles had collapsed (see attached Photographs 5 and 6). Moreover, evidence of a previous runoff event directing flow beyond the BMPs toward East Fork Sand Creek (State waters) was observed; including rill and gulley formation directing previous flow across the access road (see attached Photograph 7). As a result, there was a potential for sediment discharge to East Fork Sand Creek (State waters). Adequate BMPs must be implemented to prevent the potential discharge of sediment into East Fork Sand Creek (State waters).
6. It was observed during the inspection that BMPs were not implemented to prevent the discharge of sediment from a large expanse of disturbed soil (approximately 1.5 acres) located along the northwest corner of Marksheffel Road and Meadowbrook Parkway (see attached Photographs 8 through 10) to East Fork Sand Creek (State waters). Rill and gulley formation were observed down-gradient of the disturbed area along the streambank (see attached Photograph 11). As a result, there was a potential for sediment discharge to East Fork Sand Creek (State waters). Adequate BMPs must be implemented to prevent the potential discharge of sediment from the disturbed area into East Fork Sand Creek (State waters).
7. It was observed during the inspection that inadequate BMPs were implemented to prevent the discharge of sediment from disturbed up-gradient areas to a storm drain inlet at the intersection of Meadowbrook Parkway and the Woolsey Heights roadway (see attached Photograph 12). As provided by Jerry Edmonds (Project Manager, Hammers Construction), the onsite storm drain inlets are connected to various outfalls into East Fork Sand Creek (State waters). The area up-gradient of the intersection had not been adequately stabilized and the silt fence had been bypassed by a previous flow event (see attached Photograph 13). Sediment and debris accumulation was visible adjacent to the storm drain inlet (see attached Photograph 14). As a result, there was a potential for sediment discharge to the storm drain system and a subsequent outfall to East Fork Sand Creek. Adequate BMPs must be implemented to prevent the discharge of sediment to the storm drain inlet and a subsequent outfall to East Fork Sand Creek (State waters).
8. It was observed during the inspection that BMPs were inadequately maintained along the southeast side of Meadowbrook Parkway. Specifically, the silt fence was not properly entrenched in the ground to retain sediment and had been bypassed by a previous flow event (see attached Photograph 15). In addition, several sections of silt fence had collapsed (see attached Photograph 16). As a result, there was a potential for discharge of sediment from this location to Meadowbrook Parkway, a public street. BMPs must be inspected and maintained in good and effective operating condition to prevent the discharge of sediment from this location to Meadowbrook Parkway.
9. It was observed during the inspection that BMPs were not implemented to prevent the discharge of sediment to the Woolsey Heights roadway at a location northeast of the jobsite trailer (see attached Photograph 17). Sediment and debris accumulation was visible in the Woolsey Heights roadway, a private street (see attached Photograph 18). BMPs must be implemented to prevent the discharge of sediment from the adjacent disturbed area to the Woolsey Heights roadway.