

STORMWATER MANAGEMENT PLAN FOR MOUNTAIN'S EDGE

January 20, 2011

Prepared for:

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Project # 08019

STORMWATER MANAGEMENT PLAN

To: Site Inspector Responsible For All Colorado Department of Public Health and Environment (CDPHE) and El Paso County Requirements

The following Stormwater Management Plan (SWMP) is a required item under the Construction Stormwater Discharge Permit. The primary goal for a SWMP is to improve water quality by reducing pollutants in stormwater discharges.

Construction dewatering is a separate issue, and must be covered by the CDPHE Water Quality Control Division's general permit for construction dewatering (regardless of the size of the construction project). Stormwater that mixes with groundwater in an excavation is subject to the controls in the construction dewatering permit.

It is assumed that the SWMP will be completed and implemented at the time the project breaks ground, and will be revised if necessary as construction proceeds. This document must be kept at the construction site at all times and made available to the public, El Paso County personnel and any representative of the CDPHE – Water Quality Control Division, if requested.

The inspection checklist (Appendix IV) should be used as a guideline for the inspection log of permanent and temporary control devices. Items to be inspected are not limited to those listed. The inspections should be made at least every 14 days and after any precipitation or snowmelt event that causes surface erosion. Inspections should also be made at the beginning and end of construction activities. An inspection log should be kept with the SWMP.

The conditions of the SWMP and General Permit for Stormwater Discharges Associated with Construction Activity will remain in effect until Final Stabilization is achieved and a notice of inactivation is sent to CDPHE Water Quality Control Division. All pertinent records must be kept on file for at least three (3) years from the date the site is finally stabilized.

Reference: CDPHE SWMP Guidance: www.cdphe.state.co.us/wq/PermitsUnit/

City of Colorado Springs Drainage Criteria Manual Volume 2

STORMWATER MANAGEMENT PLAN (SWMP) MOUNTAIN'S EDGE

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STORMWATER MANAGEMENT PLAN (SWMP) MOUNTAIN'S EDGE

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY

Mountain's Edge is a 39.23-acre site zoned as Rural Residential 5-ac Lots (RR-5). The site is located in the North one-half of the North one-half of the Southwest One-Quarter of Section 13, Township 12 South, Range 63 West of the Sixth Principal Meridian in the County of El Paso, State of Colorado. Mountain's Edge is bounded to the north, east and south by single-family, multi-acre rural housing and to the west by McClelland Road, a gravel county road, beyond which to the west is more single-family, multi-acre rural housing. The 5-ac single family residential development will require rough grading, final grading, utility installation, road construction, and excavation.

PROPOSED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES

- 1. Clearing and grubbing necessary for perimeter controls.
- 2. Install perimeter controls, including silt fence around the site at down slope locations of disturbed soil and around down slope areas of any designated stockpile area. Silt fence to be maintained during entire construction sequence.
- 3. Notify El Paso County for initial inspection.
- 4. Complete remaining clearing and grubbing. Install stormwater culverts. Install additional BMPs, as outlined in the SWMP.
- 5. Rough grading site. Install additional BMPs, as outlined in the SWMP.
- 6. Final grading of site.
- 7. Removal of temporary BMPs. On-site stabilization to reduce erosion of disturbed soil.
- 8. Achieve Final Stabilization, as outlined in SWMP. Send inactivation notice to CDPHE.

AREAS OF DISTURBANCE

2.72 acres of the proposed 39.23-acre site will undergo clearing, excavation and grading.

SITE RUNOFF CHARACTERISTICS

The site runoff coefficients are:

	Minor Storm	Major Storm
Historic (Existing) conditions	0.25	0.35
Roofs, sidewalks, and pavement areas	0.90	0.95
Landscaped and undeveloped areas	0.25	0.35

Currently the site is undeveloped and consists of two southeast trending drainages separated by a ridge. Surficial slopes range from 1% to 6% with the most southeasterly ridge sloping east from 5% to 11%. A 'Geology and Soils Study' was prepared for this site by Kumar and Associates, dated November 14, 2008. Their soils analysis identified five soils unit types on site, predominately sandy loams with an SCS 'B' grouping and some loamy sand on the ridge tops with an SCS 'A' grouping. The average annual precipitation is about 15 inches. Mountain's Edge is situated within the Upper Bracket Creek Drainage Basin. Flows from two off-site basins enter this site from the north, continue unimpeded through the site, exit the south boundary and join at a point just north of Scott Road.

EXISTING VEGETATION DESCRIPTION

Existing vegetation on the property consists of sparse grass, weeds and cactus. The existing vegetative ground cover is approximately 75% for the entire site. This will service as a basis for determining final stabilization at the conclusion of the project. Photographs of existing vegetative ground cover may also be used to verify existing conditions.

POTENTIAL POLLUTION SOURCES

Construction activities that will take place at the site may have an impact on the stormwater quality. These include, but not limited to, all disturbed and stored soils, management of contaminated soils, loading and unloading operations, outdoor storage activities (building materials, fertilizers, chemicals, etc.), portable toilets, fueling depots, materials storage and vehicle maintenance. The location of any of these activities that are not included on the initial site should be added along with a description of the measures used to prevent the discharge of these materials from the site.

ANTICIPATED NON-STORMWATER DISCHARGES

Non-stormwater discharges are caused by activities other than direct runoff from precipitation events. These activities include, but are not limited to, natural springs, utility construction dewatering. Also, some discharges, such as construction dewatering, may require additional permits. Any non-stormwater discharges that are not included on

the initial site map should be added along with a description of the measures used to handle it.

There are not any anticipated non-stormwater discharges known at this time.

RECEIVING WATERS DESCRIPTION

Discharge from this site flows into two unnamed tributaries of Bracket Creek. The ultimate receiving water is Bracket Creek.

BEST MANAGEMENT PRACTICES (BMPs) FOR STORMWATER POLLUTION PREVENTION

Installation of BMPs are staged in order to minimize the potential for pollutants in the stormwater discharge. Three stages will be used as follows: establishment of perimeter controls, installation of temporary BMPs, and revegetation of non-developed surfaces. Descriptions of some of the available BMPs are listed below.

Only clearing and grubbing necessary for the installation of perimeter controls should be employed in the first stage of temporary BMPs installation. Perimeter silt fence and stormwater culvert outlet controls should then be installed as shown on the SWMP Site Map. At this time, El Paso County should be notified to schedule and initial inspection. No other land disturbing activity should occur until the initial inspection is complete.

The second stage of temporary BMPs installation will be installed after remaining clearing and grubbing, installation of stormwater culverts and rough grading have been completed. Per the SWMP Site Map, check dams will be installed in the roadside ditches. Other controls would include any silt fence within the site, such as on the downhill side of stockpile location, at the top and toe of steep slopes and in other areas deemed necessary by the person responsible for inspection and maintenance. Also, temporary swales, temporary seeding and surface roughing may be used as needed to control erosion. If controls are added or removed, the SWMP Site Map should be updated accordingly.

The third stage is revegetation of non-developed surfaces. A separate plan will detail the construction requirements of the gravel road. Upon completion of all grading activities, all disturbed areas not sodded or developed will be reseeded with a native seed mix and watered until a mature stand is established. At this point, the person responsible for inspection and maintenance can begin to address requirements for final stabilization.

EROSION AND SEDIMENT CONTROLS

Erosion control measures shall be implemented in a manner that will protect properties and public facilities from the adverse effects of erosion and sedimentation as a result of construction and earthwork activities. The following practices are to be implemented for this site. Erosion control construction details are included in Appendix III.

Structural Practices

In areas of sheet flow running off-site and at the top and bottom of steep slopes, silt fence may be used to trap sediment. Silt fence should be placed on the contour and in areas where the tributary areas are less than one-quarter acre per 100' of silt fence. Erosion barrier ditch and outlet protection will help to eliminate suspended particles and reduce sediment from entering the drainage channels. Temporary drainage swales can be used to divert water as needed. Slopes on temporary drainage swales should not exceed 1%. Sediment and debris that have been tracked off-site should be removed daily by shoveling and/or sweeping.

Non-structural Practices

Surface roughening can be used to reduce the amount of runoff from a given area. Temporary seeding can be used to provide protective cover in areas that will remain in an interim state from 60 days to a year. Erosion control mats can be used to quickly establish vegetation and prevent erosion on steep slopes and open channels. All disturbed areas not sodded or developed will be reseeded with a native seed mix and watered until a mature stand is established.

MATERIALS HANDLING AND SPILL PREVENTION

Any substance with potential to contaminate either the ground surface or the ground water shall be cleaned up immediately after the discovery or contained until appropriate cleanup methods can be employed. Manufacturer's recommended methods for spill cleanup shall be followed, along with proper disposal methods. Any discharge of hazardous material must be handled in accordance with the Divisions Notifications Requirement, see Part II.A.3.of the permit (a CDPS general permit copy may be found at http://www.cdphe.state.co.us/wq/PermitsUnit/PERMITs/SWpermitsrats/SWConstruction Permit.pdf).

FINAL STABILIZATION AND LONG-TERM STORMWATER MANAGEMENT

Final Stabilization is reached when all soil-disturbing activities at the site have been completed, and uniform vegetative cover has been established with a density of at least 70% of pre-disturbance levels or equivalent permanent, physical erosion reduction methods have been employed. The CDPHE Water Quality Control Division may, after consultation with the permittee and upon good cause, amend the final stabilization criteria for specific operations. At this time, El Paso County should be notified to schedule a final inspection. The conditions of the SWMP and General Permit for

Stormwater Discharges Associated with Construction Activity will remain in effect until Final Stabilization is achieved and a notice of inactivation is sent by the applicant to CDPHE Water Quality Control Division. All pertinent records must be kept on file for at least three (3) years from the date the site is finally stabilized.

OTHER CONTROLS

All waste and debris created by construction activities at the site or removed therefrom for disposal shall be disposed of in compliance with all laws, regulations and ordinances of the federal, state and local agencies.

INSPECTION AND MAINTENANCE

In El Paso County, inspection of stormwater quality controls must be performed by a CDOT Erosion Control Supervisor (ECS) or a Colorado registered Professional Engineer. El Paso County must be contacted prior to scheduling initial and final inspection. The person responsible for inspection and maintenance must also perform inspections at least every 14 days and after each significant rainfall event. Federal, state and local entities may also perform their own inspections. The person responsible for inspections and maintenance must follow any recommendations given in inspection report within seven (7) days. Also, a copy of the SWMP and inspection log must be kept on site at all times.

Inspections should include, at a minimum, identification of all on-site equipment, condition of all BMPs, dates that BMPs were removed, replaced and repaired since the last inspection and any maintenance performed on the BMPs and equipment. The areas of the site most likely to require maintenance or repair include access points, low points in perimeter controls, sediment ponds and spill containment areas. Any spills or failures of the erosion controls should be repaired immediately, noted on the inspection records and reviewed for how to prevent future occurrences.

It is recommended that the person responsible for inspection and maintenance use the blank inspection records found in Appendix V as a place to records each inspection performed. Appendix IV can be copied if needed. Each inspection records should be signed and dated. Copies of all other pertinent information should also be stored here for quick reference. All inspection records are to be kept wit the SWPMP for a period of no less than three (3) year after final stabilization.

Maintenance requirements for each BMP used can be found in Appendix III. It is important that all BMPs are maintained to prevent failure to the BMPs. Maintenance of equipment and facilities that have the ability to cause a spill should be performed on a regular basis and in a manner that would prevent discharge of pollutants to storm sewers and surface waters.

SWMP ADMINISTRATOR

As required by Part I.C.3 of the permit, "the SWMP shall identify a specific individual(s), position or title who is responsible for developing, implementing, maintaining, and revising the SWMP." The SWMP Administrator is the contact for all SWMP-related issues and is the person responsible for its accuracy, completeness, and implementation. Therefore, the SWMP Administrator should be a person with authority to adequately manage and direct day-to-day stormwater quality management activities at the site. The SWMP Administrator will be a designated representative of the property owner(s), hired as a contractor to perform this function. The property owner(s) signing the permit have legal authority for permit-related activities.

PREPARED BY:

LDC, Inc.

Anna C. Sparks, P.E. Director of Engineering

Anna C. Jul

APPENDIX I

STATE OF COLORADO GENERAL PERMIT APPLICATION FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

STATE OF COLORADO

De itopr

i to protecting and improving the health and environment of the people of Colorado

43. Any Cresk Dr. S.
Benner, Colorado 50245-1830
Phone (303) 652-2033
TOD Line (303) 657-7753
Located in Glendale, Colorado
http://www.colphe.atate.co.us



For Agency Use Only
Permit Number Assigned
COR03
Date Received//
Month Day Year

STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES APPLICATION PHOTO COPIES, FAXED COPIES, PDF COPIES OR EMAILS WILL NOT BE ACCEPTED.

Please print or type. Original signatures are required. This application must be considered complete by the Division before it will initiate permit processing. The Division will notify the applicant if additional information is needed to complete the application. If more space is required to answer any question, please attach additional sheets to the application form. Applications must be mailed or delivered to:

Colorado Department of Public Health and Environment
Water Quality Control Division
4300 Cherry Creek Drive South
WQCD-P-B2
Denver, Colorado 80246-1530

PERMIT INFORMATION Applicant is:	Property Owner Contractor/Operator	
Permit Applicant	V	E
	TKB PROPERTIES, LLC	
		Last Namo: DALY
Legally Responsible Person:		Last Name: DALY
Title:	OWNER	
	See description of legal contact item 9, page 3	}
Mailing Address:	6364 MIGHTY FLOTILLA AVENUE	
City, State and Zip Code:	LAS VEGAS, NV 89139-6409	
Phone:	702-897-6793	
Email Address:	tomdaly@cox.net	
Local Facility Contact	Same as Applicant	
Local Contact Person:	First Name: Anna	Last Name: Sparks, P.E.
Title:	Director of Engineering for Land Develop	ment Consultants, Inc.
Phone:	719-528-6133	
Email Address:	asparks@ldc-inc.com	
Billing Contact	Same as Applicant	
Company Name:		
Billing Contact Person:	First Name:	Last Name:
Title:	·	
Email Address:		

1. CONTACT INFORMATION - CONTINUED

Assignment Of Authorized Agent(S)—Regulation 61 [61.4(1)] NOT REQUIRED

In accordance with Regulation 61, all reports required by permits and other information requested by the Division shall be igned by a person described in section 61.4(1)(e) or by a duly authorized representative of that person. A person is a duly authorized representative only if:

i. The authorization is made in writing by a person described in paragraph 61.4(1)(e); ii. 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); and. iii. The written authorization is submitted to the Division. Duly Authorized Representative information provided below?

NO ■ YES Authorized individual: Thomas Daly Email address: tomdaly@cox.net Title: Owner Telephone No: 702-897-6793 Authorized position: Email address: Telephone No: Position currently held by: 2. PERMITTED FACILITY INFORMATION Mountain's Edge Name of Plan, Project or Development: Location of construction site: Farmhouse Court (off of McClelland Road, south of U.S. Hwy 24) Street Address (or cross streets): County: El Paso City (if unincorporated, so indicate): Calhan CO 80808 State and Zip Code: Latitude and Longitude (approximate center of site to nearest 15 seconds using one of following formats): (e.g., 39°42'11", 104°55'57") Latitude: Longitude: degrees /minutes/ seconds degrees/ minutes/ seconds OR degrees (to 3 decimal places) (e.g., 39.703°, 104.933') Longitude: -104.348 Latitude: 39.003 degrees (to 3 decimal places) 3. MAP (Attachment) Map: Attach a map that indicates the site location and that CLEARLY shows the boundaries of the area that will be disturbed. Maps must be no larger than 11x17 inches. 4. LEGAL DESCRIPTION Legal description: If subdivided, provide the legal description below, or indicate that it is not applicable (do not supply Township/Range/Section or metes and bounds description of site) Subdivision(s): Mountain's Edge Lot(s): Block(s): OR □ Not applicable (site has not been subdivided) 5. AREA OF CONSTRUCTION SITE

Total area of project site (acres): 39.23

Area of project site to undergo disturbance (acres): 2.72

Total disturbed area of Larger Common Plan of Development or Sale, if applicable:

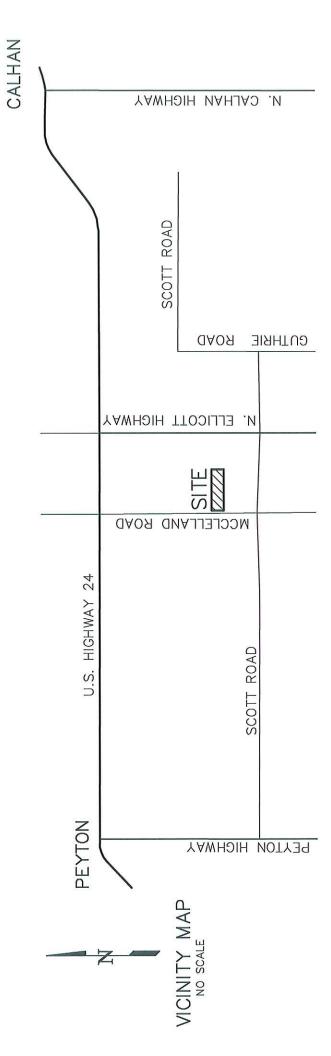
(i.e., total, including all phases, filings, lots, and infrastructure not covered by this application)

6. NATURE OF CONSTRUCTION ACTIVITY		
Check the appropriate box(s) or provide a brief description that indicates the general nature of the construction activities must be included in the Stormwater Management Plan.)	vities. (The full	
Single Family Residential Development		
□ Multi-Family Residential Development		
□ Commercial Development		
 Oil and Gas Production and/or Exploration (including pad sites and associated infrastructure) 		
□ Highway/Road Development (not including roadways associated with commercial or residential de	velopment)	
Other, Describe:		
7. ANTICIPATED CONSTRUCTION SCHEDULE		
Construction Start Date: 02-07-2011 Final Stabilization Date: 10-07-2011		
8. RECEIVING WATERS (If discharge is to a ditch or storm sewer, include the name of the ultimate received	eiving waters)	
Immediate Receiving Water(s): ditch		
Ultimate Receiving Water(s): Upper Bracket Creek		
9. REQUIRED SIGNATURES (Both parts i. and ii. must be signed)		
Signature of Legally Responsible Person or Authorized Agent (submission must include original signature)	complete. In all on of the facility g elected official, discharge tifications!	am (
Name (printed) Name (printed) Name (printed)		
Name (printed)		
ii. Signature of Permit Legal Contact		
"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information information is true, accurate and complete. I am aware that there are significant penalties for submitting false information of fine or imprisonment.	n I helieve that the	
"I understand that submittal of this application is for coverage under the State of Colorado General Permit for Storm Associated with Construction Activity for the entirety of the construction site/project described and applied for the application is amended or the certification is transferred, inactivated, or expired."	, until such time as	
\sim	2-16 - 201 (Date Signe	
	Date Signe	ed
Thomas M. DALL OWNER		

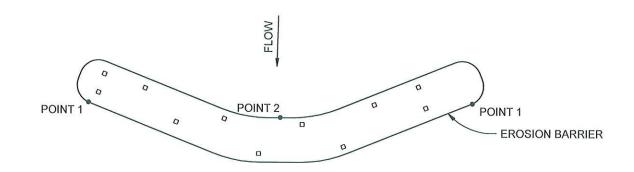
DO NOT INCLUDE A COPY OF THE STORMWATER MANAGEMENT PLAN

DO NOT INCLUDE PAYMENT - AN INVOICE WILL BE SENT AFTER THE CERTIFICATION IS ISSUED.

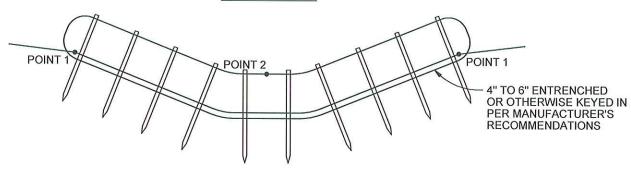
APPENDIX II VICINITY MAP



APPENDIX III EROSION CONSTRUCTION DETAILS



PLAN VIEW



POINTS 1 SHALL BE HIGHER THAN POINT 2.

ELEVATION



L= THE DISTANCE SUCH THAT POINTS A AND B ARE AT THE SAME ELEVATION.

SPACING

INSTALLATION REQUIREMENTS

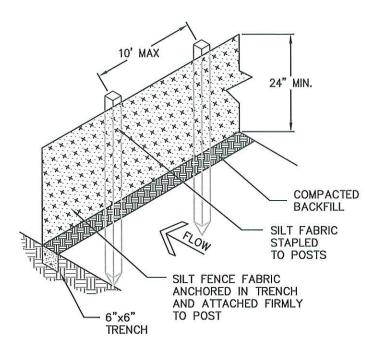
- 1. EROSION BARRIERS SHOULD BE KEYED IN TO PREVENT UNDER-CUTTING.
- 2. BARRIERS SHALL BE TIGHTLY ABUTTED WITH NO GAPS.
- 3. BARRIERS ARE TO EXTEND UPSLOPE SO THE TRAPPED RUNOFF CANNOT FLOW AROUND THE ENDS OF THE BARRIER.

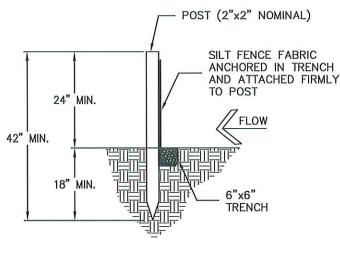
MAINTENANCE REQUIREMENTS

- 1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL BARRIERS, ESPECIALLY AFTER STORM EVENTS PRODUCING RUNOFF.
- 2. ACCUMULATED SEDIMENT AND DEBRIS IS TO BE REMOVED FROM BEHIND THE BARRIER WHEN 1/2 OF THE ORIGINAL HEIGHT OF THE DAM IS REACHED. UNENTRENCHED BARRIERS NEED TO BE REPAIRED WITH COMPACTED BACKFILL MATERIAL.
- 3. WHEN BARRIERS ARE REMOVED THE CHANNEL LINING OR VEGETATION IS TO BE RESTORED.



EROSION BARRIER (EB)





INSTALLATION REQUIREMENTS

- 1. SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- 2. WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.
- 3. METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
- 4. THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #9 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.
- 5. WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY—DUTY WIRE STAPLES AT LEAST 3/4" LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3' ABOVE THE ORIGINAL GROUND SURFACE.

- 6. ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUNOFF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF THE FILL IS RECOMMENDED.
- 7. THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 36 INCHES; HIGHER FENCES MAY INPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.

MAINTENANCE REQUIREMENTS

- 1. CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE SILT FENCES SHALL BE PROMPTLY REPAIRED OR REPLACED.
- 2. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.
- 3. SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.



SILT FENCE DETAIL (SF)

LDC/EC-1

APPENDIX IV SAMPLE INSPECTION RECORD (INSPECTION CHECKLIST)



3898 Maizeland Road Colorado Springs, CO 80909

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Fax: 719-528-6848 www.ldc-inc.com

Phone: 719-528-6133

I	ISI	PECTION RECOR	D	
Pro	oject specti	Name: on Date:	Time:	Project No
		E OF CONSTRUCTION		
		-Construction aring and Grubbing	Rough Grading Building Construction	Finish Grading Final Stabilization
IN	SPE	CTION CHECKLIST		
Ye	s No	NA		
		☐ Is there any evidence of some Have all denuded areas respected? yes/no ☐ Are soil stock piles adequuing Does permanent vegetatious Have sediment trapping for For perimeter sediment trapping for Are sediment basins instaluing Are finished cut and fill significant Are on-site channels and one Do all operational storm such are stormwater conveyant Is in-stream construction one Are temporary stream cround Is necessary restabilizatious Are utility trenches stabilium Are soil and mud kept offul Have all temporary controur Have all control structure Do properties and waterwide deposition due to increase	ediment leaving the construction site? If so, quiring temporary or permanent stabilization Mulched? yes/no Graveled ately stabilized with seeding and/or sediment provide adequate stabilization? In provide adequate stabilization? In provide adequate stabilization? In provide adequate stabilization? In provide adequate stabilized as a first step in Linda ping measures, are earthen structures stabilized where needed? In provide adequately stabilized? In provide adequately stabilized? In provide adequately stabilized with chan conducted using measures to minimize chan assings of non-erodible material installed when of in-stream construction complete? In public roadways at intersections with site a pol structures that are no longer needed been repairs and sediment removal been perform any downstream from development appear the sin peak stormwater runoff?	n been stabilized? l? yes/no nt trapping measures? DA? ilized? nel lining and/or outlet protection? nel damage? ere applicable? ccess roads? removed? ed? o be adequately protected from erosion and sediment
			ischarges or spills of fuels, lubricants, chemediment leaving the construction site? If so,	
		÷ *	DA = Land Disturbing Activity	
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		of	8	



3898 Maizeland Road Colorado Springs, CO 80909

Phone: 719-528-6133 Fax: 719-528-6848

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BMP MAINTENANCE CHECKLIST	PRACTICE		TENCE	COMMENTS / REMARKS / ACTIONS NECESSARY
CHECKLIST	USED	YES	NO	
TEMPORARY SEEDING		ILO	NO	
TEMPORARY				
TEMPORARY SWALES				
CHECK DAM/STRAW				
BALE BARRIER				
DIVERGION				
DIVERSION				
DRAINAGE SWALE				
Secretary Secretaries and Artists				
EROSION CONTROL BLANKET				
BLANKET				
'NLET PROTECTION				
OUTLET PROTECTION				
ROUGH CUT STREET				
CONTROL				
-				
SEDIMENT BASIN				
SEEDING/MULCHING				
			1	
SILT FENCE				
SLOPE DRAIN				
CLIPPI OF POLICIPINA				2
SURFACE ROUGHENING				
VEHICLE TRACKING				
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APPENDIX V

STORMWATER MANAGEMENT PLAN (SWMP)

OPERATION AND MAINTENANCE INSPECTION LOG

The inspection checklist in Appendix IV (or equivalent) is to be used at each stormwater management inspection per the requirements outlined in Inspection and Maintenance section of this SWMP, or as requested by federal, state and local entities. Also include copies of any inspection performed by federal, state and local entities. Corrective action should be taken no more than 7 days after a deficient inspection. As a result of these inspections, the SWMP may need to be revised (See Appendix VI). The inspection records and current SWMP shall be made available to the CDPHE Water Quality Division and El Paso County upon request.

For additional inspection records, the sample inspection record found in Appendix IV can be copied as needed.



3898 Maizeland Road Colorado Springs, CO 80909 Phone: 719-528-6133 Fax: 719-528-6848

Sheet ___ of __

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I	ISP	ECTION RECORD		
Pro	ject l	Name: on Date:	Time:	Project No
		OF CONSTRUCTION		
	_Pre-	Construction aring and Grubbing	Rough Grading Building Construction	Finish Grading Final Stabilization
	_ ====	=======================================		
IN	SPEC	CTION CHECKLIST		
Ye	s No	NA		
		☐ Is there any evidence of sedin	vn on site map in SWMP? If the BMPs on ment leaving the construction site? If so, rring temporary or permanent stabilization Mulched? yes/no Graveled	been stabilized?
		 □ Are soil stock piles adequate □ Does permanent vegetation p □ Have sediment trapping facil 	ly stabilized with seeding and/or sedimen rovide adequate stabilization? ities been constructed as a first step in LI	t trapping measures? OA?
		☐ Are sediment basins installed ☐ Are finished cut and fill slope	es adequately stabilized?	lized?
			ets adequately stabilized? er inlets have adequate inlet protection? channels adequately stabilized with chant	nel lining and/or outlet protection?
		☐ Are temporary stream crossin	ducted using measures to minimize chann ngs of non-erodible material installed who f in-stream construction complete?	
		☐ Have all temporary control st	blic roadways at intersections with site actual ructures that are no longer needed been in	removed?
		☐ Do properties and waterways deposition due to increases in	n peak stormwater runoff?	be adequately protected from erosion and sediment
		☐ Is there any evidence of discl☐ Is there any evidence of sedin	narges or spills of fuels, lubricants, chem ment leaving the construction site? If so,	icals or other items of concern? note the areas in comments below.
			A = Land Disturbing Activity	
			8 6	
2	rbal/			
Re	corde	ed by:	d	Date:



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MP MAINTENANCE PRACTICE MAINTENCE HECKLIST USED REQUIRED			COMMENTS / REMARKS / ACTIONS NECESSARY
5.0000000000000000000000000000000000000	YES	NO	1
	Charles and the party of the pa	USED REQU	USED REQUIRED

APPENDIX VI

EROSION & STORMWATER QUALITY CONTROL PLAN AND SWMP SITE MAP

An additional blank copy of this plan has been provided to allow for changes as needed.

The site map must reflect current site conditions at all times.