

# STORMWATER MANAGEMENT PLAN

## FOR ROLLING MEADOWS SUBSTATION

Stormwater Permit # \_

Certification # \_\_\_\_\_

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**SWMP Location**

On-site (copy) and Lorson, LLC (original)

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**APPENDIX A: VICINITY MAP****APPENDIX B: Grading / Erosion Control Plans .....**

- EXHIBIT 1: ROLLING MEADOWS SUBSTATION GRADING AND EROSION CONTROL PLANS, DATED MAY, 2025 BY CORE ENGINEERING GROUP

**APPENDIX C: STORMWATER INSPECTION REPORTS (BY REFERENCE ONLY  
NOT ATTACHED)****APPENDIX D: SPILL REPORT FORM****APPENDIX E: RECORD OF STABILIZATION AND CONSTRUCTION ACTIVITY DATES****APPENDIX F: FEDERAL, STATE, OR LOCAL STORM WATER OR OTHER  
ENVIRONMENTAL INSPECTOR SITE VISIT LOG****APPENDIX G: GENERAL PERMIT AND APPLICATION**

**SWMP REPORT REVISION LOG**

REV. #	DATE:	BY:	COMMENTS	Initials
1.				
2.				
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4.				
5.				

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## 1.0 INTRODUCTION

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**Rolling Meadows Substation** consists of 8 acres of grading for a future 5.968 acre substation tract. The site is currently undeveloped land within Bull Hill.

Eagle Development Company is the Owner and will be the overall developer to grade the site. This Stormwater Management Plan (SWMP) will only cover construction activities that are provided as the overall developer. As Bull Hill development progresses, this SWMP plan may need to be updated to reflect the revised scope of infrastructure.

### Site Description:

**Rolling Meadows Substation** is a future 5.968 acre tract located within Bull Hill. The site is located on the south side of Bradley Road approximately 3,000 feet west of Meridian Road adjacent to existing electric transmission lines, on a vacant tract of land.

Grading will be contained with Parcel No. 5500000324 owned by Eagle Development Company.

The legal description for the future substation tract can be found in the appendix.

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## 2.0 SEQUENCE OF MAJOR ACTIVITIES – Exhibit 1 Construction

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The anticipated date for beginning construction activities is October, 2025 and will be complete in June, 2026. Implementation of the storm water management plan should be in place prior to initiating construction activities. Infrastructure for all commercial lots will be installed in one phase. The anticipated sequence of construction is as follows:

Initial: (October, 2025):

1. Installation of perimeter erosion control measures as shown on Exhibit 1.
2. Vehicle Tracking Control Pads
3. Inlet Protection on existing inlets

Interim Stage (September, 2025 - April, 2026)

4. Site Clearing/Grubbing and topsoil stockpiling.
5. Construct haul road
6. Rough grade site
7. Construct interim sediment basin
8. Construct temporary sediment traps (if needed) as construction progresses

Final: (April, 2026 to June, 2026)

9. Final stabilize areas
10. Final stabilize ROW.
11. Final erosion control measures as areas are completed
12. Remove construction BMP's

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## 3.0 PRE-DEVELOPMENT CONDITIONS

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According to the current FEMA Flood Insurance Rate Map (FIRM) number 08041CO790 G, this site is located within the 100-year floodplain. See Appendix A.

Existing Vegetation:

The site is currently undeveloped and was used as pasture for many years. Ground cover is estimated at 65% density and will be visually verified in the field prior to groundbreaking activities.

Existing Slopes:

Existing slopes are around 1%-2% that direct runoff southerly overland to the East Tributary of Jimmy Camp Creek.

Existing Drainage Patterns:

Pre-development drainage patterns generally flow southerly to the East Tributary of Jimmy Camp Creek.

Existing Soil Types:

The following table summarizes the characteristics of the soil type.

**SCS Soils Survey for Entire Study Area**

Soil No.	Soil	Hydro. Group	Shrink/Swell Potential	Permeability	Surface Runoff Potential	Erosion Hazard
78	Sampson Loam (12.7%)	B	Moderate	Slow	Low	Slight

The existing soil types have a slight potential for erosion which can be mitigated by employing appropriate downstream construction BMP's before/during/after construction to limit potential impacts to stormwater discharges. The potential impacts are sediment discharge downstream. Sediment should not be allowed to enter downstream facilities and can be mitigated by constructing a temporary sediment basin and perimeter erosion control. Based upon the location of the different soil types and type of construction, the contractor shall employ the most appropriate method of erosion control measures based on the El Paso County/City of Colorado Springs Drainage Criteria Manual, Vol. 2 or as directed by the SWMP administrator or his representative.

More detailed soils information can be found in the SCS soils survey for El Paso County.

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#### **4.0 DEVELOPED CONDITIONS**

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The overall drainage concept for ***Rolling Meadows Substation*** is to direct the project area runoff south overland as in existing conditions. A temporary sediment basin will be converted in the future to a water quality pond and other site drainage will flow to a future pond within the first Bull Hill subdivision filing.

There are no control measures owned/operated by another entity within this project site and disturbed area.

Proper erosion protection will be installed so no sediment or is discharged offsite.

#### Construction Site Estimates:

- Project Site: 5.968 acres (future tract)
- Disturbed Area: 8 acres
- Percent Impervious before Construction: 0%
- Runoff Coefficient before Construction: 0.35 for undeveloped
- Ground Cover density prior to construction 65%
- Percent Impervious after Construction: 0%
- Runoff Coefficient after Construction: 0.35 for undeveloped areas
- Final stabilization must be 70% of pre-construction density.

#### Receiving Waters:

- East Tributary of Jimmy Camp Creek
- Description: The creek channels are dry creek beds that flows water intermittently after significant rainfall events in the drainage basin.
- Description of Storm Sewer System: There are no existing storm sewer systems on-site.
- Description of impaired waters or waters subject to TMDLs: The site contains no impaired waters or waters subject to TMDLs.
- Description of unique features that are to be preserved: There are no known protected plant species within the project limits.
- Describe measures to protect these features: there are no known features to be protected.

#### Site Features and Sensitive Areas to be Protected:

This site is located within (100-year floodplain) and contains no other sensitive areas including wetlands or endangered species.

#### Stream Crossings:

This site is located within (100-year floodplain) and there will be no stream crossings with this development.

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### **5.0 POTENTIAL SOURCES OF POLLUTION AND CONTROL STRATEGIES**

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Potential sources of sediment to stormwater runoff include earth moving and concrete activities associated with grading and landscaping.

Potential pollutants and sources, other than sediment, to stormwater runoff include Trash, debris, line transfer, Dewatering, fueling and equipment failure.

A dewatering permit is not anticipated with this project.

There are no asphalt or concrete batch plants proposed with this project.

Construction activities produce many different kinds of pollutants which may cause storm water contamination problems. Grading activities remove rocks, vegetation and other erosion

controlling surfaces, resulting in the exposure of underlying soil to the elements. Because the soil surface is unprotected, soil and sand particles are easily picked up by wind and/or washed away by rain or other water sources.

The following sections highlight the potential sources of pollution at the Project Site and list the “Best Management” strategies that will be used to prevent migration of pollution offsite. Chemical materials stored indoors or that have no reasonable chance of impacting storm water quality will not be discussed in this plan.

Materials of significance stored on the project site include:

- Sediment
- Concrete Washout
- Cement
- Trash & Debris
- Sanitary Wastes
- Fuels & Oils

### **5.1 Wind Erosion & Dust Control**

Pollutant: Sediment

Best Management Strategies:

- Daily inspections will occur for areas experiencing excessive winds, vehicle traffic, or precipitation events.
- Water trucks will spray down dust on the project Site as needed to not impact adjacent properties.
- Attention will be given to prevent the over use of water in dust control operations to minimize any muddying of the surface and possible sediment transportation.

### **5.2 Vehicular Transport**

Pollutant: Sediment Tracking

Best Management Strategies:

- Construct a stabilized construction entrance to provide ingress and egress of the site.
- Restrict access to the stabilized construction entrance.
- Fencing will be erected if problems with access control are evident.
- Maintain track out pads by fluffing up the rock material or by adding additional rock as needed.
- Inspect, sweep and clean adjacent streets where track out is evident.

### **5.3 Stockpiles**

Pollutant: Sediment

Best Management Strategies:

- Locate stockpiles clear of any water flow paths.
- Locate stockpiles within the property boundary.
- Stockpiles will have erosion control devices as needed installed around the base to prevent the migration of soil.
- Topsoil stock piles and disturbed portions of the site where construction activity temporarily ceases for at least 14 days will be stabilized with temporary seed and mulch no later than 14 days from the last construction activity in the area.

### **5.4 Grading, Trenching, Export/Import**

Pollutant: Sediment

Best management Strategies:

- Earth moving will be minimized by the engineering balancing of the site.
- Disturbed portions of the site where construction activity temporarily ceases for at least 14 days will be stabilized with temporary seed and mulch no later than 14 days from the last construction activity in the area.
- Seed bed preparation is not required if soil is in loose condition.
- Prior to seeding, fertilizer shall be applied to each acre to be stabilized in accordance with the manufacturer's specifications.
- If required seeding areas shall be mulched with straw to a uniformed cover. The straw mulch is to be tacked into place by a disk with blades set nearly straight.
- A site specific erosion control drawing has been developed showing the location of Best Management practices to be used during site construction.
- Where indicated on the erosion control plan, Best Management Practices will be installed.
- Material shall be in accordance with the plans and specifications and all construction shall be provided in accordance with the manufacturer's specifications.
- All BMP's will be inspected bi-weekly and cleaned/maintained as required.

### **5.5 Waste, Residual Concrete**

Pollutant: Concrete, paint, and Phosphoric Acid

Best Management Strategies:

- A cleanup and washout area will be designated and posted.
- Subcontractors will be instructed on the locations and importance of the washout and cleanup areas. No on-site disposal is allowed.
- Instruct subcontractors to remove waste for which proper onsite disposal facilities are not provided back to their own facilities for ultimate transport, storage & disposal.
- Subcontractors and subcontractor employees are held responsible for improper washout.

### **5.6 Sanitary Facilities, Trash Containers & Littering**

Pollutant: Bacteria, Ammonia, Trash

Best Management Strategies:

- Portable facilities will be regularly serviced to prevent excessive waste containment and overflow.
- All waste materials will be collected and stored in a container which will meet all local and any state solid waste management regulations.
- Trash dumpsters will be emptied prior to becoming 90% full or when debris control becomes an issue.
- Employees will be instructed on the importance of recycling and waste management, and will be held responsible for improper waste management.

### **5.7 Fueling, Hazardous Materials, Equipment Leakage, Fertilizer**

Pollutant: Petroleum Hydrocarbons, Ethylene Glycol, Sediment

Best Management Strategies:

- MSDS sheets will be maintained in the project trailer for all onsite materials
- All dry materials such as cement will be covered and protected from rain.
- Secondary containment will be provided for stored fuel, oil, paint and any material classified as hazardous.

- Subcontractors are responsible for hazardous waste removal back to their own facilities for ultimate transportation, storage and disposal.
- Supplies will be kept onsite as necessary to control any potential spill.
- Employees will be held responsible for any illegal dumping.
- Seals will be checked by a qualified professional on all equipment and containers containing significant materials that could contribute potential pollutants and will be replaced as necessary.
- Equipment will be inspected by a qualified professional.
- Drip pans will be available for minor leaks and during fueling operations.
- Fueling nozzles, gauges, hoses, seals, and emergency shutoff valves will be inspected for leaks prior to use.
- Under no circumstances during fueling will the fueling hose/nozzle be left unattended.
- Fertilizers used will be applied only in the minimum amounts recommended by soil tests.
- Once applied, fertilizers will be worked into the soil to limit exposure to storm water.
- Stored fertilizer will be protected from exposure to precipitation and storm water runoff.

### **5.8 Dewatering – not anticipated to be necessary. This shown for information only**

Pollutant: Sediment, Oil and/or Grease and Phosphoric Acid

Best Management Strategies:

- All dewatering will be filtered through rock and/or woven geo mesh fabric.
- All dewatering will be tested for Pollutants per state guidelines weekly

### **5.9 Concrete and Asphalt Batch Plant** This shown for information only

There are no existing batch plants located on this project site and there are no proposed batch plants in the future.

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## **6.0 BEST MANAGEMENT PRACTICES (BMP's)**

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Also refer to attached Erosion and Sediment Control notes and plans included in the site plans

### **6.1 – Erosion and Sediment Control BMP's**

#### **6.1.1 Minimize Disturbed Area and Protect Natural Features and Soil**

All work will occur inside the limits of construction per the erosion Control Site Plan. See Exhibit 1.

#### **6.1.2 Phase Construction Activity**

The sequence for the installation and removal of erosion and sediment control measures is as follows:

1. Installation of perimeter erosion control measures as shown on Exhibit 1.
2. Site Clearing/Grubbing and topsoil stockpiling.
3. Overlot grading and Final grading.
4. Construct temp sediment traps if needed as construction progresses
5. Construct underground storm.
6. Final stabilize areas

## 7. Final erosion control measures as areas are completed

### **6.1.3 Control Stormwater Flowing onto and through the Project**

#### **Narrative:**

There is no offsite stormwater flowing onto this project disturbed area. Temporary sediment traps and a proposed storm sewer system will convey on-site stormwater throughout the site.

### **6.1.4 Stabilize Soils**

No disturbed area which is not actively being worked shall remain denuded for more than 14 calendar days unless otherwise authorized by the director. Temporary cover by seeding or mulching should be provided on areas which will be exposed for a period greater than 14 days before permanent stabilization can be achieved. Permanent cover should be provided on all areas as soon as possible, by means of seeding and mulching, straw or hay mulch is required. All soil stock piles and borrow areas must be protected with silt fence within 14 days after grading. All slopes within the project limits that are found to be eroding excessively within two years of permanent stabilization shall be provided additional slope stabilization methods such as seeding and mulching.

Water is to be used for dust control. The Contractor will prevent the escape of this water and any sediment it may carry from the construction site.

### **6.1.5 Protect Slopes**

Temporary stabilization will include the installation of silt fences on level contours spaced at 10-20 foot intervals. Slopes will be seeded and covered with hay, straw or erosion control blankets on slopes greater than 3:1 as needed to provide for temporary stabilization until vegetation is permanently established.

All slopes within the project limits that are found to be eroding excessively within two years of permanent stabilization shall be provided additional slope stabilization methods such as seeding and mulching. Where slopes are steeper than 3:1 erosion control blankets (per specification requirements) will be utilized for final stabilization.

### **6.1.6 Protect Storm Drain Inlets**

Inlet protection will be installed as soon as storm drain inlets are installed and before land-disturbance activities begin in areas with existing storm drain systems.

At the Contractor's discretion, additional temporary erosion control practices to include rock bags and sand bag barriers may be installed to prevent sediment movement. Inlet protection will include rock bags erosion logs curb inlet sediment filters where an overflow capacity is necessary to prevent excessive ponding in front of the curb inlet. Concrete block and wire screen inlet protection if used a detail will be included Appendix B prior to installation, will be used where heavy flows are expected and where an overflow capacity is necessary to prevent excessive ponding around the inlet.

Inlet protection devices will be inspected and accumulated sediment will be removed as needed.

### **6.1.7 Establish Perimeter Controls and Sediment Barriers**

Temporary stabilization will include the installation of silt fences on the downslope perimeter of project area. The silt fence will be trenched in on the uphill side 6 inches deep and 6 inches wide as detailed in the silt fence exhibit. Sediment will be removed when it reaches 1/3 the height of the fence. Silt fence will be inspected and replaced or repaired as needed.

### **6.1.8 Retain Sediment On-Site**

Temporary sediment traps shall be installed to detain sediment laden runoff from small watersheds for a period long enough to allow sediment to settle before discharge into receiving waters. For small drainage locations smaller sediment traps should be used. At a minimum, silt fences, vegetative buffer strips or equivalent sediment controls are required for all down-slope boundaries (and for those side slope boundaries deemed appropriate as dictated by individual site conditions) of the construction. The use of a combination of sediment and erosion control measures in order to achieve maximum pollutant removal will be utilized. Sediment traps/basins will be checked regularly for sediment cleanout. Sediments shall be removed and the trap restored to its original dimensions when the sediment has accumulated to one half the design volume of the wet storage. Sediment shall be disposed in suitable areas and in such a manner that will not erode or cause sedimentation problems. The gravel outlets will be checked regularly for sediment buildup which will prevent damage. If the gravel is clogged by sediment, it shall be removed and cleaned or replaced.

#### **6.1.9 Establish Stabilized Construction Exits**

The construction entrance will be established in the entry points of roads. The construction entrance will be at least 75 feet in length and approximately 12 feet wide and graded so runoff does not leave the site. The aggregate will be established at 8 inches thick on top of 4 inch minimum thick free draining material on top of geotextile and will consist of Type G dense graded material. A stabilized stone pad with a filter fabric under liner will be placed at points of vehicular ingress and egress.

#### **6.1.10 Additional BMP's**

##### **BMP Schedule:**

All Sediment and Erosion control BMP's (detailed below and only on BMP site map and details if utilized onsite) will be installed prior to any excavation or demolition and will be coordinated with the construction schedule.

As construction changes and new temporary BMP's are needed to control sediment and erosion temporary BMP's will be installed within 24 hours of inspection report.

##### **Recommended BMP's:**

ALL RECOMMENDED BMP'S WILL BE INSTALLED PRIOR TO EXCAVATION NEAR ANY SENSITIVE AREAS.

**Culvert Inlet Protection** will be used to protect existing and new culvert inlets. Inlet Protection Detail will be included in Appendix before using onsite. Removal of this BMP will occur only after vegetation is established to a minimum of 70% pre construction coverage and after removal of BMP all sediment builds up will be removed and the area exposed shall be seeded.

**Silt Fence** is to be installed in sensitive areas to protect stream channels, pond, and overland runoff. On this site it will be used to protect runoff from the slip pits. See Silt Fence Detail. Removal of this BMP will occur only after vegetation is established to a minimum of 70% pre construction coverage and after removal of BMP all sediment builds up will be removed and the area exposed shall be seeded.

**Vehicle Tracking Control** is needed at the main construction entrance location. Vehicle tracking control shall be installed at the edge of the construction staging area where construction vehicles regularly exit onto existing asphalt road. If sediment tracking occurs it will be cleaned within 24 hours.

See Vehicle Tracking Control Detail in Appendix B. Removal of this BMP will occur only after project is substantially complete and is ready for seeding operations; the area will then be seeded per specification with the rest of the project.

**Check Dams** (rip rap) will be used to reduce storm water velocities in drainage channels during construction as a temporary measure until permanent stabilization can be created and vegetation has been established. Check Dam Detail will be included in the the Appendix before using onsite. Removal of this BMP will occur only after vegetation is established to a minimum of 70% pre construction coverage and after removal of BMP all sediment build-up will be removed and the area exposed shall be seeded.

**Portable Toilets:** Portable toilets are brought in from a service contractor and will be maintained in accordance with standard waste disposal practices using vacuum trucks and place on stable ground to minimize risk of spillage. All portable toilets will be kept a minimum of 50' from any state waters and a minimum of 10' from stormwater inlets. They shall be adequately staked and cleaned on a weekly basis. They will be inspected daily for spills.

**Waste Disposal:** If needed Roll offs will be utilized for standard construction waste. A qualified contractor will remove waste weekly and take to an appropriate dump site off this project.

#### **6.1.11 Permanent BMP'S:**

##### **Re-vegetation:**

During construction any disturbed area not being currently worked left dormant longer than 14 days will be re-vegetated per specification with native seed and mulched and crimped with weed free straw.

**Final Stabilization** will be considered complete when all disturbed areas have a minimum of 70% preconstruction coverage for the specification requirements. Then all temporary BMP's will be removed and the exposed areas left behind will be seeded.

Other permanent BMP's will be constructed once the substation construction begins

## **6.2 Good Housekeeping BMP'S**

### **6.2.1 Material Handling and Waste Management**

The site will use a private refuse collector that will remove litter twice weekly. No less than one litter receptacle will be present at the construction site. In the event that unusual items such as

tanks, cylinders, unidentified containers, etc. which could contain potentially hazardous materials are discovered or disturbed, the Fire and Rescue services will be notified. Litter and debris will be picked up and disposed of properly daily. Temporary toilet facilities will be located 50 feet away from any storm drain inlets and all waters of the state.

#### **6.2.2 Establish Proper Building Material Staging Areas**

A designated staging area will be used, location to be determined based on available space in the field and plans will be redlined. The staging area will be contained per SWMP guidelines. All Equipment and Materials will be brought into the site as needed.

#### **6.2.3 Designate Washout Areas**

A concrete washout will be installed and will be placed more than 500 feet away from any waters of the state. The location will be field determined and documented.

#### **6.2.4 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices**

During construction the site will be exposed to operation and maintenance of construction equipment. The contractor shall be responsible for all activities such as fueling, oil changing, lubrication and repair which require use of petroleum products. Such products shall be transported to and from the site in special trucks equipped for that purpose. No waste petroleum products, rags, residue, or equipment parts shall be left on site. In the event of a spill or leak, causing soil to be contaminated, that soil shall be excavated placed in sealed barrels and removed from the site for transport to an approved location for disposal.

See section 7 for the Spill Plan.

#### **6.2.5 Control Equipment/Vehicle Washing**

Washing any equipment will not be allowed on-site

#### **6.2.6 Any Additional BMPs**

There are no additional BMP's anticipated

#### **6.2.7 Allowable Non-Stormwater Discharge Management**

There are no visible natural springs or irrigation or other non-stormwater discharges anticipated to be encountered.

#### **6.2.8: SELECTING POST-CONSTRUCTION BMPs**

Post Construction BMPs. Re-vegetation including seeding, mulching and erosion control blanket, and future WQ ponds for long-term stormwater quality will be final BMP's. Permanent stabilization will be achieved with 70% pre construction vegetative establishment.

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### **7.0 SPILL PREVENTION AND CONTROL PLAN**

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The SITE SUPERINTENDENT will act as the point of contact for any spill that occurs at this jobsite. The project manager will be responsible for implementation of prevention practices, spill containment / cleanup, worker training, reporting and complete documentation in the event of a spill. The ECO shall immediately notify the Owner, /Construction Manager, STATE and the

Local Fire Department in addition to the legally required Federal, State, and Local reporting channels (including the National Response Center, (800.424.8802) if a reportable quantity is released to the environment

## **7.1 SPILL PREVENTION BEST MANAGEMENT PRACTICES**

This section describes spill prevention methods Best Management Practices (BMP) that will be practiced to eliminate spills before they happen.

### **7.1.a Equipment Staging and Maintenance**

Store and maintain equipment in a designated area Reduce the amount of hazardous materials and waste by substituting non-hazardous or less hazardous materials.

Use secondary containment (drain pan) to catch spills when removing or changing fluids.

Use proper equipment (pumps, funnels) to transfer fluids Keep spill kits readily accessible Check incoming vehicles for leaking oil and fluids.

Transfer used fluids and oil filters to waste or recycling drums immediately following generation.

Inspect equipment routinely for leaks and spills Repair equipment immediately, if necessary implement a preventative maintenance schedule for equipment and vehicles.

### **7.1.b Fueling Area**

Perform fueling in designated fueling area minimum 50' away from federal waters

Use secondary containment (drain pan) to catch spills

Use proper equipment (pumps, funnels) to transfer fluids

Keep spill kits readily accessible

Inspect fueling areas routinely for leaks and spills

### **Hazardous Material Storage Areas**

Reduce the amount of hazardous materials by substituting non-hazardous or Less hazardous materials.

### **7.1. c Hazardous Material Storage Areas**

Minimize the quantity of hazardous materials brought onsite

Store hazardous materials in a designated area away from drainage points.

### **7.1. d Unexpected Contaminated Soil and Water**

- Investigate historical site use
- Perform all excavation activities carefully and only after the Owner/Construction Manager directed any activities

## **7.2 SPILL CONTAINMENT METHODS**

The following discussion identifies the types of secondary containment that will be used in the event of a spill. Table 1 summarizes the containment methods for each potential source.

- **Equipment Staging and Maintenance Area.** An equipment leak from a fuel tank, equipment seal, or hydraulic line will be contained within a spill containment cell placed beneath all stationary potential leak sources. An undetected leak from parked equipment will be cleaned up using hand shovels and containerized in a 55-gallon steel drum for offsite disposal.

- **Fueling Area.** A small spill during fueling operations will be contained using fuel absorbent pads at the nozzle. The transfer of fuel into portable equipment will be performed using a funnel and/or hand pump and a spill pad used to absorb any

incidental spills/drips. Any leaking tanks or drums will have fluids removed and transferred to another tank, drum, or container for the fluids. A spill response kit will be located near the fueling area or on the fuel truck for easy access. The spill response kit will include plastic sheeting, tarps, over pack drums, absorbent litter, and shovels.

- **Hazardous Material Storage Area.** A spill from containers or cans in a hazardous material storage area will be contained within the storage cabinet these materials are kept in.

- **Unexpected Contaminated Soil.** If contaminated soil is encountered during the project, the

Owner/Construction Manager will be notified immediately. Small quantities of suspected contaminated soil will be placed on a 6-mil plastic liner and covered with 6-mil plastic. A soil berm or silt fence will be used to contain the stockpile and prevent migration of contaminated liquids in the soil.

**Table 1: Spill Prevention and Containment Methods**

Potential Spill Source	Potential Spill Source
Equipment Staging and Maintenance Area	Spill containment pad, spill kit, pumps, funnels
Fueling Area (site equipment only)	Spill containment pad, spill kit, pumps, funnels
Hazardous Material Staging Area	Spill containment pad, spill kit, pumps, funnels
Unexpected Contaminated Soil	Plastic liner, plastic cover, soil berm, hay bales, lined super sacks

### 7.3 SPILL COUNTERMEASURES

Every preventative measure shall be taken to keep contaminated or hazardous materials contained. If a release occurs, the following actions shall be taken:

1. **Stop the Spill:** The severity of a spill at the site is anticipated to be minimal as large containers/quantities of Hazardous Materials (HM) are not anticipated. The type of spill would occur while dispensing material at the HM storage facility and would likely be contained in secondary containment. Thus, the use spill kits or other available absorbent materials should stop the spill.

2. **Warn Others:** Notify co-workers and supervisory personnel of the release. Notify emergency responders if appropriate. For site personnel, an alarm system will consist of three one second blasts on an air horn sounded by the person discovering a spill or fire. In the event of any spill, the Superintendent and Project Manager shall be notified **if the spill is 5 gallons or more the STATE will be contacted along with the Fire Department.**

3. **Isolate the Area:** Prevent public access to the area and continue to minimize the spread of the material. Minimize personal exposure throughout emergency response actions.

4. **Containment:** A spill shall only be contained by trained personnel and if it is safe to do so. DO NOT PLACE YOURSELF IN DANGER. Attempt to extinguish a fire only if it is in the incipient stage; trash can size or smaller. For larger spills, wait for the arrival of emergency response personnel and provide directions to the location of the emergency.

**5. Complete a Spill and Incident Report:** For each spill of a Hazardous Material a spill and incident report shall be completed and submitted to the Owner/Construction Manager and if applicable to the Engineer and the State of Colorado Department of Public Health and Environment

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## **8.0 INSPECTIONS**

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### **8.1 Inspections**

Inspections will occur at least every 14 days and within 24 hours of a precipitation or snow melt event producing runoff, which from past experience this occurs with precipitation of 1/4 inch of rain or more. The primary site for tracking weather data and rainfall measurements will be taken from

Weather Underground and a rain gauge will be onsite for verification only.

#### **1. Inspection Personnel:**

The contract Qualified Stormwater Manager will conduct the site inspections as mentioned above in Section 8.1. The Qualified Stormwater Manager will be sufficiently qualified for the required duties per ECM Appendix I.5.

#### **2. Inspection Schedule and Procedures:**

The inspection schedule will be routinely accomplished every 14 days and after every storm event or snow melt for the entire site with all BMP's evaluated for performance and need. Any BMP found to be ineffective will be re-accomplished or replaced with a new BMP to provide the level of protection needed. BMP's found to be no longer needed will be removed. Inspections will also be accomplished as soon as practical, but within 24 hours of the end of a precipitation or snow melt event causing surface erosion.

The general procedures for correcting problems when they are identified will be to document the problem in the log and devise a solution utilizing all resources available to formulate BMP's that will correct the problem as soon as possible.

A copy of the inspection report to be used for the site is attached. See Appendix.

### **8.2 Delegation of Authority**

#### **Duly Authorized Representative(s) or Position(s):**

Authorized representatives for the SWMP plan will be: Jeff Mark – Primary Contact  
Qualified Stormwater Manager – Trevor Terrill

### **8.3 Revisions to the SWMP**

The Qualified Stormwater Manager and/or the site superintendent have the authority to add/subtract/revise BMP's as necessary to accommodate stormwater flow and prevent runoff. However, the engineer should be notified when any major redirection of runoff, offsite runoff, pond modifications, or other substantial changes are made to this SWMP. Changes should be documented per Section 9.0.

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## **9.0 RECORDKEEPING AND TRAINING**

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### **9.1 Recordkeeping**

- Records will be retained for a minimum period of at least 3 years after the permit is terminated.
- Major activities will start on 10/01/2025:

- Date(s) when construction activities permanently cease on a portion of the site: 6/2026
- Date(s) when an area is either temporarily or permanently stabilized: 6/2026
- All inspection logs must be signed by a qualified stormwater manager

### **9.2 Changes to the SWMP**

Any changes will be referenced in APPENDIX. See Section 8.3 for authority to change the SWMP. The SWMP should be viewed as a “living document” that is continuously being reviewed and modified as a part of the overall process of evaluating and managing stormwater quality issues at the site. The Qualified Stormwater Manager shall amend the SWMP when there is a change in design, construction, operation or maintenance of the site which would require the implementation of new or revised BMPs or if the SWMP proves to be ineffective in achieving the general objectives of controlling pollutants in stormwater discharges associated with construction activity or when BMPs are no longer necessary and are removed

### **9.3 Training**

Individual(s) Responsible for Training:

All personnel on site will trained on the site specific SWMP requirements to be conducted by the Qualified Stormwater Manager and/or the site superintendent.

### **9.4 SWMP Location**

The on-site SWMP will be located at the SE corner of Fontaine Boulevard and Marksheffel Road. All signed inspection logs will be kept on-site with the SWMP.

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## **10.0 FINAL STABILIZATION**

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Final stabilization will be accomplished by contractors to re-vegetate the area of disturbance per the approved plans and specifications. Final stabilization will include permanent seeding/mulching of disturbed areas, sediment traps, erosion control blankets, and permanent BMP's.

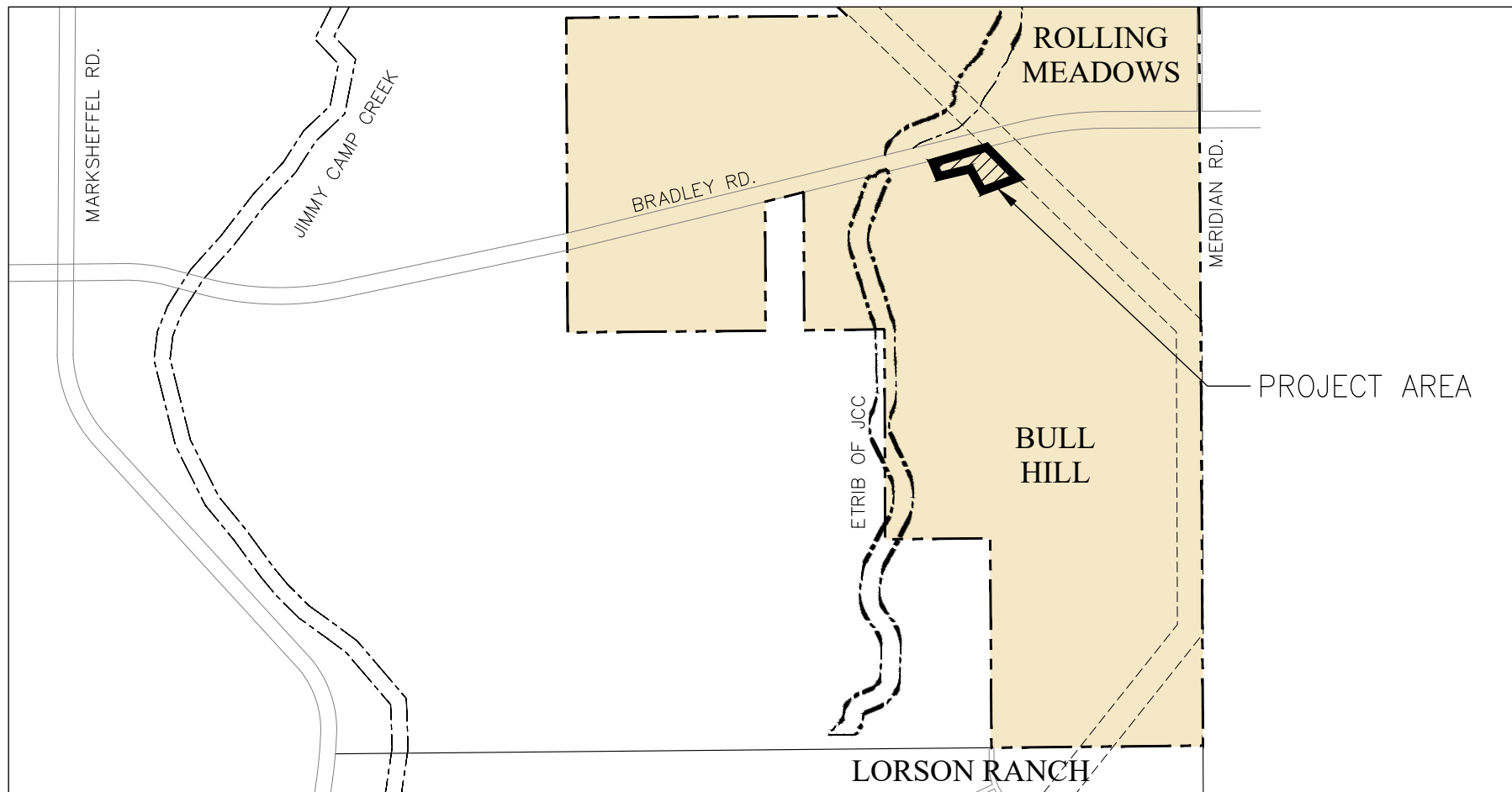
Once 70% of the pre-development vegetative cover has been established and has been accepted, temporary BMP's will be removed and the permit will be terminated and filed.

Long term stormwater quality will be achieved by offsite existing full spectrum detention ponds with WQ outlet structures and the future on-site pond. If sediment and debris has collected, it must be excavated/removed to meet design grades. In addition, storm lines shall be clean and free from sediment once the site has been stabilized.

Final stabilization is anticipated to be completed in June, 2026

This project does not rely on control measures that are owned/maintained by another entity.

## **APPENDIX A**



LOCATION MAP

1"=1500'



**SITE**

08041C0790G  
eff. 12/7/2018



212 N Wahsatch Ave, Ste 305  
Colorado Springs, CO 80903  
Mail to: PO Box 1360  
Colorado Springs, CO 80901  
719.955.5485

**MVEA SUBSTATION (FUTURE TRACT)  
ANTELOPE RIDGE AT BULL HILL FILING NO. 1  
BOUNDARY LEGAL DESCRIPTION (5.968 ACRES)**

A PARCEL OF LAND IN THE NORTH HALF OF THE NORTH HALF (N 1/2 N 1/2) OF SECTION 12, T15S, R65W OF THE 6<sup>TH</sup> P.M., EL PASO COUNTY, COLORADO, BEING PORTIONS OF THOSE PARCELS DESCRIBED BY SPECIAL WARRANTY DEEDS RECORDED UNDER RECEPTION NOS. 221024677 AND 221136530 IN THE RECORDS OF EL PASO COUNTY, COLORADO, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS;

COMMENCING AT THE INTERSECTION OF THE SOUTHERLY RIGHT-OF-WAY LINE OF BRADLEY ROAD AS DESCRIBED IN EL PASO COUNTY BOARD OF COUNTY COMMISSIONERS RESOLUTION NO. 98-360 RECORDED UNDER RECEPTION NO. 098124132 IN THE RECORDS OF SAID EL PASO COUNTY AND THE WESTERLY LINE OF THAT 100 FOOT WIDE ELECTRICAL EASEMENT DESCRIBED IN GRANT OF RIGHT-OF-WAY RECORDED IN BOOK 2655 AT PAGE 58 IN THE RECORDS OF EL PASO COUNTY, COLORADO;

THENCE S46°04'43"E ALONG SAID WESTERLY EASEMENT LINE, 48.48 FEET TO THE POINT OF BEGINNING:

THENCE CONTINUING S46°04'43"E ALONG SAID LINE, 376.79 FEET;  
THENCE S44°42'53"W A DISTANCE OF 131.61 FEET;  
THENCE S76°10'17"W A DISTANCE OF 601.13 FEET;  
THENCE N13°47'58"W A DISTANCE OF 256.80 FEET;  
THENCE N47°45'20"W A DISTANCE OF 59.17 FEET;  
THENCE S76°10'55"W A DISTANCE OF 293.98 FEET;  
THENCE N13°49'05"W A DISTANCE OF 65.00 FEET;  
THENCE N76°10'55"E A DISTANCE OF 433.75 FEET;  
THENCE N66°10'55"E A DISTANCE OF 95.31 FEET;  
THENCE N76°10'55"E A DISTANCE OF 311.58 FEET TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINS AN AREA OF 259,954 S.F. (5.968 ACRES, MORE OR LESS).

BASIS OF BEARING: A PORTION OF THE SOUTHERLY RIGHT-OF-WAY LINE OF BRADLEY ROAD AS DESCRIBED IN EL PASO COUNTY BOARD OF COUNTY COMMISSIONERS RESOLUTION NO. 98-360 RECORDED UNDER RECEPTION NO. 098124132 IN THE RECORDS OF EL PASO COUNTY, COLORADO, SAID LINE BEING MONUMENTED ON THE WEST BY A NO. 5 REBAR AND 1.25 INCH ALUMINUM CAP STAMPED "CRITIGEN PLS 38166" FROM WHENCE THE EAST END MONUMENTED BY A NO. 5 REBAR AND YELLOW PLASTIC CAP STAMPED "PLS 23044" BEARS N76°10'55"E A DISTANCE OF 3,283.82 FEET. THE UNIT OF MEASUREMENTS IS THE U.S. SURVEY FOOT.

PREPARED BY:

---

VERNON P. TAYLOR, COLORADO P.L.S. NO. 25966  
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC

DATE

File: O:\43149 Antelope Ridge BH\Landhuis\Survey\Surv Exhibits\MVEA Substation Boundary.dwg Plotstamp: 4/30/2025 12:41 PM



MVEA SUBSTATION  
ANTELOPE RIDGE AT BULL  
HILL EXHIBIT "B"  
JOB NO. 10-036  
DATE PREPARED: 04/28/2025  
DATE REVISED:



**APPENDIX B**

**EROSION CONTROL PLANS**

**APPENDIX C**

**STORMWATER INSPECTION REPORT**

## Stormwater Inspection Report

Project Name and Location: \_\_\_\_\_

Inspector Name and Title: \_\_\_\_\_ Director: \_\_\_\_\_

Date/Time of Inspection: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_

Schedule Completion Date: \_\_\_\_\_ Construction Stage (circle all that apply):

Clearing/Grubbing Paving Rough Grading Infrastructure Building Construction Final

Grading Final Stabilization Terminate Permit \_\_\_\_\_

Type of Control	Describe status, identify problems, maintenance needs, or non-conformance with details or temporary alteration	Problem addressed (date and description of corrective action)
<b>Structural:</b>		
Silt Fence <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Tears/Holes <input type="checkbox"/> Burial <input type="checkbox"/> Sed. Accum. <input type="checkbox"/> Sediment bypass	
Const. Exit <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Voids Filled <input type="checkbox"/> Trackout	
Check Dam <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Sediment Accumulation	
Inlet Protection <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Sed. Accum. <input type="checkbox"/> Sed. Bypass <input type="checkbox"/> Application not appropriate	
Diversion Ditch/Berm <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Erosion <input type="checkbox"/> Stabilization	
Sediment Trap <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Sediment Accumulation	
Sediment Basin <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Sed. Accumulation <input type="checkbox"/> Bank erosion <input type="checkbox"/> Stabilization	
Discharge Point <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Erosion <input type="checkbox"/> Sediment Discharge	
Material Storage/Secondary Contain. <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Not shown on Site Map <input type="checkbox"/> Spills <input type="checkbox"/> Out of design. area <input type="checkbox"/> Improper storage: chemicals; solvents; paint; fuels, etc.	

Other Structural Controls <input type="checkbox"/> OK <input type="checkbox"/> N/A		
<b>Non-Structural:</b>		
Good Housekeeping <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Solid Waste <input type="checkbox"/> Sanitary Waste <input type="checkbox"/> Dust Control	

Project Name and Location: \_\_\_\_\_ Date: \_\_\_\_\_ Page 2

Equip. Wash/Maint. <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Spills <input type="checkbox"/> Outside designated area	
Concrete Washout <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Spills out of designated area <input type="checkbox"/> Not shown on Site Map	
<b>Stabilization:</b>		
Seed/Sod Mulching, Geotextile, Blankets <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Need Temp. stab. <input type="checkbox"/> Need final stab. <input type="checkbox"/> Health of veg.	
<b>Record Keeping:</b>		
Entrance Postings <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> NOI <input type="checkbox"/> Permits <input type="checkbox"/> Construction Site Notice	
SWPPP Notebook <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Missing Sections <input type="checkbox"/> Missing Forms	
Site Map/Details <input type="checkbox"/> OK <input type="checkbox"/> N/A	<input type="checkbox"/> Activities not up-to-date <input type="checkbox"/> Deviate from details <input type="checkbox"/> BMP Additions <input type="checkbox"/> Modifications <input type="checkbox"/> Not up-to-date	
Other <input type="checkbox"/> OK <input type="checkbox"/> N/A		

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 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.

\_\_\_\_\_  
Inspector's Signature

\_\_\_\_\_  
Date

**APPENDIX D**  
**SPILL REPORT FORM**

## Spill Report Form

Project Type and Location: \_\_\_\_\_

Spill Reported by: \_\_\_\_\_

Date/Time Spill: \_\_\_\_\_

Describe spill location and events leading to spill: \_\_\_\_\_

\_\_\_\_\_

Material spilled: \_\_\_\_\_

Source of spill: \_\_\_\_\_

Amount spilled: \_\_\_\_\_ Amount spilled to waterway: \_\_\_\_\_

Containment or clean up action: \_\_\_\_\_

\_\_\_\_\_

Approximate depth of soil excavation: \_\_\_\_\_

List Injuries or Personal Contamination: \_\_\_\_\_

Action to be taken to prevent future spills: \_\_\_\_\_

\_\_\_\_\_

Modifications to the SWPPP necessary due to this spill: \_\_\_\_\_

\_\_\_\_\_

Agencies notified of the spill: \_\_\_\_\_

\_\_\_\_\_

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 gather and evaluate 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 Superintendent

\_\_\_\_\_  
Date

**APPENDIX E**

**RECORD OF STABILIZATION AND  
CONSTRUCTION ACTIVITY DATES**

## **SITE STABILIZATION and CONSTRUCTION ACTIVITY DATES**

A record of dates when BMPs are installed or removed, stabilization measures are initiated, major grading activities occur, and construction activities temporarily or permanently cease on a portion of the site shall be maintained until final site stabilization is achieved.

### **MAJOR STABILIZATION AND GRADING ACTIVITIES**

Description of

Activity: \_\_\_\_\_

Site Contractor: \_\_\_\_\_ Begin (date):

\_\_\_\_\_ End(date): \_\_\_\_\_

Location: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Description of

Activity: \_\_\_\_\_

Site Contractor: \_\_\_\_\_ Begin (date):

\_\_\_\_\_ End(date): \_\_\_\_\_

Location: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Description of

Activity: \_\_\_\_\_

Site Contractor: \_\_\_\_\_ Begin (date):

\_\_\_\_\_ End(date): \_\_\_\_\_

Location: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**APPENDIX F**

**FEDERAL, STATE, OR LOCAL STORM WATER OR OTHER  
ENVIRONMENTAL INSPECTOR SITE VISIT LOG**

## Federal, State, or Local Storm Water or other Environmental Inspector Site Visit Log

Inspectors Name: \_\_\_\_\_ Agency: \_\_\_\_\_

Contractors Representative Present: \_\_\_\_\_

Others Present: \_\_\_\_\_

Comments: \_\_\_\_\_

Time and Date: \_\_\_\_\_ Report Prepared:  
Yes No

Inspectors Name: \_\_\_\_\_ Agency: \_\_\_\_\_

Contractors Representative Present: \_\_\_\_\_

Others Present: \_\_\_\_\_

Comments: \_\_\_\_\_

Time and Date: \_\_\_\_\_ Report Prepared:  
Yes No

Inspectors Name: \_\_\_\_\_ Agency: \_\_\_\_\_

Contractors Representative Present: \_\_\_\_\_

Others Present: \_\_\_\_\_

Comments: \_\_\_\_\_

Time and Date: \_\_\_\_\_ Report Prepared:  
Yes No

**APPENDIX G**  
**GENERAL PERMIT**