

**Construction Activities Stormwater Management Plan (SWMP)**

**Falcon U-Haul Filing No. 1**

**Colorado Springs, Colorado**

Latitude: 38°56'08"N, Longitude: 104°36'50"

EDARP Project Number: PPR2256 & SF2240

Owner/Developer:

Amerco Real Estate Company

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Qualified Stormwater Manager

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Company:

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Contractor:

Name:

Company:

Address:

Kiowa Project No. 21061

June 9, 2023

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## STATE STORMWATER DISCHARGE PERMIT REQUIREMENTS

A stormwater management plan (“plan”) shall be developed for each construction site covered by the Construction Stormwater Permit prior to commencement of construction activities (For public emergency related sites a plan shall be created no later than 14 days after the commencement of construction activities).

At least ten days prior to the anticipated start of construction activities (i.e. the initial disturbance of soils associated with clearing, grading, excavation activities, installation of structural Best Management Practices, or other activities), for projects that will disturb one (1.0) acre or more, the owner or operator of the construction activity must submit an application as provided by the Colorado Department of Public Health and Environment, Water Quality Control Division (Division). This form may be reproduced and is also available from the Division’s web site. Applications received by the Division are processed and a permit certification and other relevant materials will be sent to the attention of the legally responsible person. The application contains certification of completion of a storm water management plan (SWMP). Do not include a copy of the Stormwater Management Plan, unless requested by the Division.

For information or application materials contact:

Colorado Department of Public Health and Environment  
Water Quality Control Division  
WQCD-P-B2  
4300 Cherry Creek Drive South  
Denver, Colorado 80246-1530  
<https://www.colorado.gov/pacific/cdphe/wq-construction-general-permits>

Electronic Application – CDPHE website:

<https://www.colorado.gov/pacific/cdphe/WQ%20permits%20construction%20electronic%20application>

## I. STORMWATER MANAGEMENT PLAN OBJECTIVES

The objective of the Stormwater Management Plan (SWMP) is “To identify possible pollutant sources at the construction site that may contribute pollutants to stormwater, and identify control measures that, when implemented in accordance with good engineering, hydrologic, and pollution control practices, will reduce or eliminate any possible water quality impacts. A stormwater management plan shall be developed for each construction site covered by the Construction Stormwater Permit. The stormwater management plan must be completed and implemented at the time the project breaks ground, and revised as construction proceeds, to accurately reflect the conditions and practices on site. *COLORADO DISCHARGE PERMIT SYSTEM (CDPS) GENERAL PERMIT COR400000*”. A general schedule or phasing of control measures will be determined by construction schedule and ground disturbances necessitating required erosion control methods/control measures. The SWMP shall be implemented until expiration or inactivation of permit coverage. Evaluations of and modifications to this plan may be necessary during the length of the construction project until the site is finally stabilized.

SWMP Plan Availability: A copy of the Stormwater Discharge Permit from the State of Colorado, SWMP Report, SWMP Site Map, SWMP Notes and Details; and inspection reports shall be kept on site by the Qualified Stormwater Manager at all times, as to be available for use by the operator/ Qualified Stormwater Manager and to be available for inspection by federal, state and local agencies. If an office location is not available at the site, the SWMP must be managed so that it is available at the site when construction activities are occurring (for example: by keeping the SWMP in the superintendent’s vehicle). The permittee shall retain copies of the SWMP and all reports required by the Permit and records of all data used to complete the Permit application for three (3) years minimum after expiration or inactivation of permit coverage, unless the community requires a longer period.

This 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 control measures or if the SWMP proves ineffective in controlling pollutants in stormwater runoff in compliance with the permit conditions or when control measures are no longer necessary and are removed and corrective actions are taken onsite that result in a change to the plan.

For plan revisions made prior to or following a change(s) onsite, including revisions to sections addressing site conditions and control measures, a notation must be included in the plan that identifies:

1. The date of the site change, the control measure removed, or modified,
2. The location(s) of those control measures, and
3. Any changes to the control measure(s).

The permittee must ensure the site changes are reflected in the plan. The permittee is noncompliant with the Construction Stormwater Permit until the plan revisions have been made.

SWMP revisions must be made prior to changes in the site conditions, except for “Responsive SWMP Changes” as follows:

- SWMP revision must be made immediately after changes are made in the field to address control measure installation and/or implementation issues; or

- SWMP revisions must be made as soon as practicable, but in no case more than 72 hours, after change(s) in control measure installation and/or implementation occur at the site that require development of materials to modify the SWMP.
  - ◊ A notation must be included in the SWMP prior to the site change(s) that includes the time and date of the change(s) in the field, and identification of the control measure(s) removed or added and the location(s) of the control measure(s). Modifications to the SWMP shall be submitted to the County within seven days.

A Colorado Discharge Permit System (CDPS), Stormwater Discharge Associated with Construction Activities Permit from the Colorado Department of Public Health and Environment is required for this project. The general conditions associated with the permits must be followed through the duration of the land disturbing activities at the site. For additional details or more specific information on the CDPS permit, consult the CDPS General Permit No. COR400000.

#### **A. State Permit Applicant**

The State Permit applicant (also referred to as the Permittee) must be a legal entity that meets the definition of the owner and/or operator of the construction site, in order for this application to legally cover the activities occurring at the site. The applicant must have day-to-day supervision and control over activities at the site and implementation of the SWMP. Although it is acceptable for the applicant to meet this requirement through the actions of a contractor, as discussed in the examples below, the applicant remains liable for violations resulting from the actions of their contractor and/or subcontractors. Examples of acceptable applicants include:

Owner or Developer - An owner or developer who is operating as the site manager or otherwise has supervision and control over the site, either directly or through a contract with an entity such as those listed below.

General Contractor or Subcontractor - A contractor with contractual responsibility and operational control (including SWMP implementation) to address the impacts construction activities may have on stormwater quality.

Other Designated Agents/Contractors - Other agents, such as a consultant acting as construction manager under contract with the owner or developer, with contractual responsibility and operational control (including SWMP implementation) to address the impacts construction activities may have on stormwater quality.

Refer to the CDPHE, *Stormwater Management Plan Preparation Guidance* for additional information.

The Permittee shall be legally responsible for compliance with the State Permit.

#### **B. SWMP Terms**

Control Measure: Any best management practice or other method used to prevent or reduce the discharge of pollutants to state waters. Control measures include, but are not limited to, best management practices. Control measures can include other methods such as the installation, operation, and maintenance of structural controls and treatment devices.

Nonstructural Control Measures, such as preserving natural vegetation, preventive maintenance and spill response procedures, schedules of activities, prohibition of specific practices, education, and other management practices are mainly operational or managerial techniques.

Structural Control Measures include treatment processes and practices ranging from diversion structures and silt fences, to retention ponds and inlet protection.

Construction Start Date: This is the day when ground disturbing activities are expected to begin, including grubbing, stockpiling, excavating, demolition, and grading activities.

Disturbance Area Determination: Aside from clearing, grading and excavation activities, disturbed areas also include areas receiving overburden (e.g., stockpiles), demolition areas, and areas with heavy equipment/vehicle traffic and storage that disturb existing vegetative cover.

Final Stabilization Date: In terms of permit coverage, this is when the site is finally stabilized. This means that all ground surface disturbing activities at the site have been completed, and all disturbed areas have been either built on, paved, or a uniform vegetative cover has been established with an individual plant density of at least 70 percent of pre-disturbance levels (refer to Final Stabilization Section). Permit coverage must be maintained until the site has reached Final Stabilization. Even if only one part of the project is being done, the estimated final stabilization date must be for the overall project. If permit coverage is still required once your part is completed, the permit certification may be transferred or reassigned to a new responsible entity(s).

SWMP Drawings: Also known as the SWMP Site Map and Erosion Control Plans.

### **C. Contractor Required Items**

The Contractor shall include and/or provide the following items prior to beginning land disturbing activities:

- Add the Qualified Stormwater Manager and Alternate with phone numbers to this plan.
- Construction Dates – Verify the construction dates indicated in this report. Update as necessary to reflect the planned schedule.
- Material Handling and Spill Prevention procedures – See Section IV-4. Review and modify as necessary.
- Application - Insert Application for CDPS Stormwater Discharge Associated with Construction Activities Permit into Appendix.
- Permit - Insert Permit for CDPS Stormwater Discharge Associated with Construction Activities into Appendix.

## **II. SITE DESCRIPTION**

### **A. Nature of the Construction Activity**

The proposed construction includes a commercial development. This development will include construction of two buildings with paved areas throughout and landscaping around the edges, installation of water, sanitary sewer, storm sewer, gas and electric utilities within the site. The construction will involve extension of a storm sewer through the site and into the existing regional detention basin (Pond WU). A forebay will be installed at the end of the storm sewer pipe and a concrete trickle channel will extend from the pipe to the outlet structure.

#### **i. Site Location**

The subject property is located along the south side of Rolling Thunder Way, west of Meridian Road and north of Tamlin Road in Falcon, Colorado. The site is located in

the east half of Section 12, Township 13 South, Range 65 West of the 6th Principal Meridian, in El Paso County, Colorado. The location of the site is shown on the Vicinity Map (Figure 1).

**ii. Adjacent Areas**

The site is bounded to the west by Falcon Highlands Filing No. 2, future Falcon Highlands Filing No. 3, to the south by Tamlin Road, east by Meridian Road and north by Rolling Thunder Way. The Unnamed West Tributary to Black Squirrel Creek No. 2 (West Tributary) is a drainageway along the west side of the property which includes a regulated FEMA Zone AE floodplain.

**B. Sequence of Major Activities**

The major construction activities associated with this project are shown in the table below along with an approximate timing of the sequence. In general, the Qualified Stormwater Manager and the Contractor will identify the precise schedule to be used during the term of this project and modify this schedule as needed. Minimal clearing and grubbing may be necessary to install the initial erosion control features.

Approximate Sequence of Major Construction Activities:

Installation of Initial Control Measures	September 2023
Clearing, grubbing and demolition	September
Site Grading, Building and Utility Construction	September 2023 – May 2024
Paving, curb & gutter construction	November
Landscaping	April 2024
End Construction (refer to <i>Final Stabilization...</i> section)	May 2024

The temporary erosion control measures can be removed when Final Stabilization has occurred. Refer to the Final Stabilization section for a description of the requirements.

**C. Estimate of Area and Volume Disturbed**

The total site area associated with the overall property is 11.5 acres. The total disturbance for the project will be approximately 10.0 acres with some work occurring outside the property limits. The estimated area of disturbance corresponds to that necessary to perform grading, install utilities, paving, construct the buildings and landscaping for the site. Locations of disturbed areas are as shown on the SWMP Site Map. All other areas are planned to remain undisturbed.

Earthwork cut and fill operations will be roughly 9,200 cubic yards of Cut and 21,200 cy of Fill for a net of 12,000 cy Fill (import).

**D. Soil Data**

Soils within the subject site are classified to be within Hydrologic Soil Group A as shown in the El Paso County Soils Survey, see Appendix for the Soil Map. Specifically the site includes Blakeland Fluvaquentic Haplaquolls soil. Hydrologic Soil Group A soils have a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drainage to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

The pre-construction 100-year runoff coefficient for the site is 0.36 and the post-construction runoff coefficient is roughly 0.73.

## **E. Existing Vegetation and Ground Cover**

The vegetation on the existing site is in fair to good condition with native grasses throughout the site. The existing ground slopes within the property are typically in the from 1 to 4 percent with the steepest slopes occurring along the south and west property line. The vegetative cover is estimated at about 60% based on visual observation. It is recommended the contractor take pictures of the existing vegetative cover prior to construction and any calculations they feel necessary to make the Final Stabilization comparison (refer to Final Stabilization section for additional information). The contractor will be responsible for providing the documentation to make this comparison to the County and the State of Colorado, Water Quality Control Division

## **F. Potential Pollution Sources**

The potential pollution sources for the site that may have an impact to stormwater include the following items:

1. Ground disturbing activities and grading - Sediment
2. Demolition work – Sediment, asphalt, concrete, aggregate
3. Off-site vehicle tracking - Sediment
4. Vehicle maintenance or fueling – Fuel, oil, chemicals
5. Storage of demolition and disposal items – Sediment, asphalt, concrete
6. Soil, aggregate and sand stockpiling - Sediment
7. Storage of fertilizers, materials or chemicals - Chemicals
8. Concrete washouts – Concrete, slurry
9. Concrete work – Forms, form oil, curing compound
10. Paving operations – Asphalt, concrete, forms
11. Building construction – Wood, concrete, roofing products, insulation, fiberglass, trash, grout, drywall, other building materials
12. Haul routes – Sediment, fuel, oil
13. Landscaping – Fertilizers, sediment, over-watering, pesticides
14. Portolet – Chemicals, human waste

## **G. Non-stormwater Discharges**

In the existing condition there are no known non-stormwater discharges from the project site, such as springs and landscape irrigation return flows. During construction, the following non-stormwater discharges from the project site could occur.

1. Construction dewatering - Not anticipated, except for the work within the drainageway which will likely require dewatering. If dewatering is required during construction, the Qualified Stormwater Manager shall update the SWMP and determine whether a CDPHE construction dewatering permit is required prior to performing the dewatering activities. A dewatering bag or other approved control measure shall be used if dewatering is required. CDPHE Construction Discharge (dewatering) Permit shall be obtained prior to the start of construction.
2. Release of concrete washout water – Not anticipated. The washout water should be contained within the concrete washout control measure.
3. Runoff from water used for dust control – Not anticipated. The contractor should limit the amount of water used for dust control to an amount less than would result in runoff. Perimeter control measures are planned to filter water that may runoff.



If any other non-stormwater discharges from the site become apparent during the term of construction, the occurrence and mitigation shall be addressed by the Qualified Stormwater Manager.

#### H. Receiving Waters

The majority of the project area will drain by sheet flow to the south end of the property where a temporary sedimentation basin will be located before discharging the flows to the existing drainageway. Following is a description of the stream crossing within the construction site boundary.

- Stream name: Unnamed West Tributary to Black Squirrel Creek No. 2 (West Tributary)
- Stream location within the site: No stream located within the site. It is along the west and south side of the property. No stream crossing is proposed.
- Description of any disturbed upland areas that may contribute to the stream: The ground along the west side of the property generally slopes to the east and south away from the West Tributary before reaching the south end of the property where the on site flows will drain into the West Tributary.
- Description of the control measures implemented for those contributing disturbed upland areas: Silt fence is planned along the west side of the property to minimize the chance of sediment draining into the drainageway and temporary sediment basin is planned at the downstream end of the site.

Immediate Receiving water(s): On-site storm sewer system which discharges to the West Tributary. Regional Detention Pond WU is located directly downstream of the storm sewer outfall.

Ultimate Receiving Water(s): Unnamed West Tributary/Black Squirrel Creek

The West Tributary is a major drainageway located to the west of the site outside the property boundary. West Tributary has a FEMA Zone AE regulated floodplain, however the subject property is not located within a FEMA regulated floodplain based on Flood Insurance Rate Map 08041C0561G, effective dated December 7, 2018. No irrigation canals or ditches are located within the site.

### III. SWMP SITE MAP CONTENTS

The SWMP Site Map and SWMP Drawings are considered a part of this plan. It identifies the following:

1. Construction site boundaries;
2. Flow arrows that depict stormwater flow directions on-site and runoff direction;
3. All areas of ground disturbance including areas of borrow and fill;
4. Areas used for storage of soil;
5. Locations of all waste accumulation areas, including areas for liquid, concrete, masonry, and asphalt;
6. Locations of dedicated asphalt and/or concrete batch plants and masonry mixing stations;
7. Locations of all structural control measures;
8. Locations of non-structural control measures;
9. Locations of springs, streams, wetlands and other state waters, including areas that require pre-existing vegetation be maintained within 50 feet of a receiving water, where determined feasible and

10. Locations of all stream crossings located within the construction site boundary. detention basins, irrigation canals, roadside ditches and other surface waters.

The SWMP Site Map must be updated/red lined by the Qualified Stormwater Manager on a regular basis to reflect current conditions of the site at all times.

#### **IV. STORMWATER MANAGEMENT CONTROLS**

##### **A. Qualified Stormwater Manager**

The Permittee shall designate the Qualified Stormwater Manager. The Qualified Stormwater Manager is an individual knowledgeable in the principles and practices of erosion and sediment control and pollution prevention, and with the skills to assess conditions at construction sites that could impact stormwater quality and to assess the effectiveness of stormwater controls implemented to meet the requirements of this permit. The Qualified Stormwater Manager is typically the Contractor or his/her designated representative and is responsible for developing, implementing, maintaining and revising the SWMP. The Qualified Stormwater Manager is the contact person with the County and State for all matter pertaining to the SWMP. The Qualified Stormwater Manager is the person responsible for the SWMP accuracy, completeness and implementation. Therefore the Qualified Stormwater Manager should be a person with authority to adequately manage and direct day to day stormwater quality management activities at the site. The Qualified Stormwater Manager shall have the authority to act on behalf of the Permittee(s) to ensure the site remains in compliance with the CDPS Stormwater Discharge Associated with Construction Activities Permit. An Alternate Qualified Stormwater Manager who is able to serve in the same capacity as the Qualified Stormwater Manager shall also be selected.

The Qualified Stormwater Manager shall be present at the project site a majority of the time and (along with the Alternate Qualified Stormwater Manager) shall provide the County with a 24-hour emergency contact number.

If the Qualified Stormwater Manager or Alternate changes for any reason, it shall be noted/redlined on this Plan. The County shall be notified in writing of any change.

Qualified Stormwater Manager: \_\_\_\_\_

Phone: \_\_\_\_\_

Alternate Qualified Stormwater Manager: \_\_\_\_\_

Phone: \_\_\_\_\_

##### **B. Identification of Potential Pollutant Sources:**

At a minimum, the following sources and activities shall be evaluated for the potential to contribute pollutants to stormwater discharges and identified in the SWMP if found to have such potential. The sources of any potential pollutants must be controlled through control measure selection and implementation. Each pollutant source recognized through this process as having the potential to contribute pollutants to stormwater, must be identified in the SWMP along with the specific stormwater management control measures that will be

implemented to adequately control the source. (Note: the actual evaluation of the potential pollutant sources does NOT need to be included in the SWMP – just the resultant pollutant sources and their associated control measures.). The Qualified Stormwater Manager shall determine the need for and locations of each of the following potential pollutant sources during the course of the construction project.

Could it Contribute?	Potential Pollutant Source	Control Measures Implemented to Control Source
Yes	All disturbed and stored soils	Silt fence, sediment control logs, sediment basin, inlet protection, rock socks, seed and mulch
Yes	Vehicle tracking of sediments	Vehicle tracking control, street sweeping
No	Management of contaminated soils	
Yes	Loading and unloading operations	Stabilized staging area, materials storage area, vehicle tracking control, silt fence
Yes	Outdoor storage activities (erodible building materials, fertilizers, chemicals, etc.)	Stabilized staging area, silt fence
Yes	Vehicle and equipment maintenance and fueling	Stabilized staging area, silt fence
Not expected	Significant dust or particulate generating processes (e.g., saw cutting material, including dust)	Control by sprinkling with water and other appropriate means.
Yes	Routine maintenance activities involving fertilizers, pesticides, herbicides, detergents, fuels, solvents, oils, etc	Use as recommended by manufacturer and in areas specified, inlet protection
Yes	On-site waste management practices (waste piles, liquid wastes, dumpsters, etc)	Stabilized staging area, silt fence, inlet protection, sediment basin, non-structural control measures
Yes	Concrete truck/equipment washing, including the concrete truck chute and associated fixtures and equipment	Concrete washout area, stabilized staging area, vehicle tracking control, silt fence
No	Dedicated asphalt, concrete batch plants and masonry mixing stations	
Yes	Non-industrial waste sources such as worker trash and portable toilets	Stabilized staging area, construction fence, non-structural control measures
Yes	Other areas or procedures where potential spills can occur	Non-structural control measures, construction fence

### C. Best Management Practices (BMPs) for Pollution Prevention

1. A list of some of the Structural Control Measures for erosion and sediment control that may be implemented on the site to minimize erosion and sediment are as follows. Refer to the SWMP Drawings for installation and maintenance requirements for each structural control measure and refer to the SWMP drawings for the location of the control measures.

- a) Concrete Washout Area (CWA): A shallow excavation with a small perimeter berm to isolate concrete truck washout operations or a prefabricated container approved by the County.
- b) Construction Fence (CF): Installed to delineate the perimeter of the site.
- c) Dewatering (DW): Dewatering controls consist of a gravel filter provided on the suction end of a pump to reduce the pumping of sediment, a riprap pad at the discharge end of the pump for erosion protection and a sediment basin to provide for settling before the water is discharged into receiving waters.
- d) Erosion Control Blanket (ECB): Slopes equal to greater than the steepness indicated on the plans shall be protected with an erosion control blanket.
- e) Inlet Protection (IP): Installed to filter stormwater before entering any watercourses
- f) Reinforced Sock (RS): Consists of a linear mass of gravel enclosed in wire mesh to form a porous filter, able to withstand overtopping.
- g) Sediment Control Log (SCL): Consists of a cylindrical bundle of wood, coconut, compost, excelsior, or straw fiber designed to form a semi-porous filter able to withstand overtopping.
- h) Seeding and Mulching (SM): Temporary seeding and mulching can be used to stabilize disturbed areas that will be inactive for an extended period of time. Permanent seeding should be used to stabilize areas at final grade that will not otherwise be stabilized.
- i) Silt Fence (SF): A temporary sediment barrier constructed of woven fabric stretched across supporting posts.
- j) Stabilized Staging Area (SSA): Consists of stripping topsoil and spreading a layer of granular material in the area to be used for a trailer, parking, storage, unloading and loading.
- k) Temporary Stockpile Areas (SP): Temporary stockpiles of excess excavated material and stockpiles for imported materials shall be shown on the SWMP drawings. Slopes shall not be steeper than 3 to 1.
- l) Vehicle Tracking Control (VTC): Consists of a rock pad that is intended to help strip mud from tires prior to vehicles leaving the construction site. Installed at all entrance/exit points to the site. The number of access points shall be minimized.

Minimal clearing and grubbing may be necessary prior to installing the initial erosion control features.

No clearing, grading, excavation, filling or other land disturbing activities shall be permitted until approval of the Erosion Control Plan is received from the County. Once approval is received, the erosion and sediment control measures must be installed before land-disturbing activities are initiated so that no adverse effect of site alteration will impact surrounding property.

2. Non-structural practices for erosion and sediment control to be used to minimize erosion and sediment transport are:

Seeding and mulching and landscape installation in areas that will not be hard surfaced. Minimize the amount of existing vegetation to be removed during construction, leaving native vegetation in place when possible. Only the existing vegetation specified or requiring removal shall be disturbed or removed. If possible,

leave existing ground cover, including asphalt in place or remove just prior to grading to minimize the length of soil exposure.

### 3. Phased Control Measure Implementation:

The Qualified Stormwater Manager shall update the control measure implementation if necessary to meet and/or address the Contractor's schedule. The SWMP shall be updated as necessary to reflect the control measures installed.

#### a) Installation of Initial Control Measures (Initial Phase)

This stage includes control measures that shall be installed at the outset of construction, prior to land-disturbing activities. These control measures are identified on the Initial Erosion Control Plan. Prior to any construction activities, erosion control facilities shall be installed. Minimal demolition, clearing and grubbing may be necessary prior to installing the initial erosion control features. Following is a list of the control measures included in this stage along with a description of their intended use:

- Inlet protection: Add around the existing inlet along Rolling Thunder which can receive flows from the disturbed site.
- Rock Socks: Install along the Tamlin Road curb line at south end of project.
- Drainage Swale: An existing 42" storm sewer drains onto the northeast corner of the site. Construct a drainage swale to convey the flows from the pipe south to the Sediment Basin.
- Sediment Basin: To be installed prior to one acre or disturbance, including clearing and grubbing.
- Silt fence: Placed along the toe of a disturbed slope or along the downstream perimeter of the site as shown on the Plan and in some cases to delineate the construction area or protect areas from construction. Place fence on either side of the VTC to direct traffic into the VTC.
- Stabilized staging area: Placed near construction access at the north end of the site.
- Vehicle tracking control: Placed at construction access points at the north and south.

Designate areas for construction trailer (if used), trash container, portolets, vehicle and equipment parking and material storage. If these areas are not indicated on the plan, the contractor must "red line" the plan with the locations and obtain approval of the County Erosion Control Inspector prior to proceeding. If not using a detail contained in the plans a detail will need to be included in the plans. Provide a confined area for maintenance and fueling of equipment from which runoff will be contained and filtered. Control measure / erosion control facility waste shall be disposed of properly.

#### b) Clearing, grubbing and demolition (Site Clearing)

The measures included in the previous phase shall be maintained and continue. Removed soil, curb, concrete, asphalt and demolished items

shall be disposed of properly. If a soil stockpile area is needed, the plan shall be red-lined to show the location. A stockpile area shall have perimeter control and no slopes greater than 3:1. Existing vegetation to remain shall be protected. Existing vegetation should be left in place until it needs to be removed as part of the construction progress (to the extent possible); to minimize the disturbed area and erosion potential, see Item 2 above. Wind erosion shall be controlled on the site by sprinkling and other appropriate means.

c) Site Grading, Building and Utility Construction (Interim Phase)

The measures included in the previous phase (Initial Phase) shall be maintained and continue, unless noted below. Following is a list of the control measures included in this stage along with a description of their intended use:

- Check Dam: Placed at the downstream end of the proposed drainage channel.
- Concrete Washout Area: Install prior to any concrete work on the site. Located adjacent to VTC.
- Inlet protection: Maintain and add around new inlets as they are constructed.
- Rock Socks: Maintain and add in locations shown on the plans as improvements are constructed.
- Drainage Swale: Remove drainage swale after proposed storm sewer is installed to convey the flows from the existing 42" storm sewer.
- Sediment Basin: Maintain.
- Sediment control log: Add as adjacent improvements are constructed. Most of the SCL will be installed after curb and paving is done.
- Seeding and Mulching: Seed and mulch areas as grading is completed in areas and no other work will occur in the area.
- Silt fence: Maintain and place as shown on the Plan.
- Stabilized staging area: Maintain.
- Vehicle tracking control: Maintain.

Excess and removed concrete, asphalt or pavement shall be disposed of properly. Materials associated with utility and building construction shall be stored in the designated Stabilized Staging Areas delineated on the plan. If an area is not indicated on the plan, the contractor must "red line" the plan with the locations and obtain approval of the County Erosion Control Inspector prior to proceeding. If not using a detail contained in the Plans, a detail will need to be included in the plans. Material waste from utility, pavement or building construction shall be disposed of properly. Solvents, paints and chemicals shall be stored and disposed properly.

Off-site flows enter the site from the existing driveway onto Rolling Thunder Way and from the existing 42-inch RCP storm sewer at the northeast corner of the property.

Contractor shall confirm all necessary permits are in place before doing work on the storm sewer pipe outfalls into the West Tributary.

**d) Paving and curb & gutter construction (Interim Phase)**

The measures included in the previous phase shall be maintained and continue, unless otherwise noted below.

- Check Dam: Maintain.
- Concrete Washout Area: Maintain. Remove at end of paving and building construction phases..
- Inlet protection: Maintain.
- Rock Socks: Maintain and add in locations shown on the plans as improvements are constructed.
- Sediment Basin: Maintain.
- Sediment control log: Add along edge of curb and pavement which is along the bottom of a disturbed slope where flows may drain from disturbed area onto pavement.
- Silt fence: Maintain and place as shown on the Plan.
- Stabilized staging area: Maintain.
- Surface roughening: Roughen surfaces to receive seeding and mulch.
- Vehicle tracking control: Maintain.

Excess and removed concrete or asphalt shall be disposed of properly. Concrete sawcutting slurry shall not be allowed to enter the storm sewer system. Material waste from pavement shall be disposed of properly.

**e) Landscaping**

The measures included in the previous phase shall be maintained and continue, unless noted below or the work requiring the measure is completed. Removal of control measures shall not occur without the approval of the County Erosion Control Inspector.

- Check Dam: Maintain.
- Concrete Washout Area: Maintain if still in place.
- Inlet protection: Maintain.
- Rock Socks: Maintain.
- Sediment Basin: Maintain.
- Sediment control log: Maintain.
- Seeding and mulching: Install. Avoid excess watering and placing of fertilizers and chemicals.
- Silt fence: Maintain and adjust if necessary.
- Stabilized staging area: Maintain.
- Surface roughening: Roughen surfaces to receive seeding and mulch.
- Vehicle tracking control: Remove, if not removed in Paving phase.

**f) Final Stabilization**

The following erosion control measures from the previous stages shall be maintained and continue until Final Stabilization is reached. At that time,

with the approval of the County Erosion Control Inspector these control measures may be removed. Refer to Final Stabilization section for requirements.

- Inlet protection
- Rock socks
- Sediment control log
- Silt fence

The site is planned to be permanently stabilized with either pavement, buildings, permanent landscaping, seed & mulch .

The Qualified Stormwater Manager shall amend the SWMP if necessary and as required, refer to Section I.

4. Materials handling and spill prevention:

The Qualified Stormwater Manager will inspect daily to ensure proper use and disposal of materials on-site including exposed building materials, paints, solvents, fertilizers, chemicals, sanitary waste material, trash and equipment maintenance or fueling procedures. All materials stored on-site will be stored in a neat and orderly manner in the original containers with the original manufacturer's label, and if possible under a roof or other enclosure to prevent contact with stormwater. Chemicals should be stored within berms or other secondary containment devices to prevent leaks and spills from contacting stormwater runoff. Before disposing of the container, all of a product will be used up whenever possible and manufacturer's recommendations for proper disposal will be followed according to state and local regulations.

Material and equipment necessary for spill cleanup will be kept in the material storage area on-site. Manufacturer's recommendations for spill cleanup will be posted and site personnel will be made aware of the procedures along with the location of the information and cleanup supplies.

The contractor shall have spill prevention and response procedures that include the following:

- a) Notification procedures to be used in the event of an accident. At the very least, the Qualified Stormwater Manager should be notified. Depending on the nature of the spill and the material involved, the Colorado Department of Public Health and Environment (24-hour number for environmental hazards and chemical spills and releases is 1-877-518-5608.), downstream water users or other agencies may also need to be notified.
- b) Instructions for clean-up procedures and identification of spill kit location(s).
- c) Provisions for absorbents to be made available for use in fuel areas and for containers to be available for used absorbents
- d) Procedures for properly washing out concrete truck chutes and other equipment in a manner and location so that the materials and wash water cannot discharge from the site and never into a storm drain system or stream.

5. Dedicated concrete or asphalt batch plants:



No dedicated concrete or asphalt batch plants will be used.

6. Vehicle tracking control:

Off-site vehicle tracking of sediment shall be minimized and is as shown on the SWMP Site Map (Erosion Control Plans). Vehicle Tracking Control shall be installed at the construction access points. The contractor shall minimize the number of construction access points to reduce the amount of sediment tracked from the site. Streets shall be kept clean and free of mud, soil and construction waste. Street sweeping or other acceptable methods shall be used to prevent sediment from being washed from the project site. Streets shall not be washed down with water. Street cleaning operations shall occur if necessary or as directed by the County.

7. Waste management and disposal including concrete washout:

A concrete washout area is specified on the SWMP. Concrete wash water shall not be discharged to state waters, to storm sewer systems or from the site as surface runoff. The washout area shall be a shallow excavation with a small perimeter berm to isolate concrete truck washout operations. At the end of construction, all concrete shall be removed from the site and disposed of at an approved waste site. Signs shall be placed at the washout to clearly indicate the concrete washout area to operators of concrete trucks and pump rigs. Refer to the standard detail for requirements.

All construction site waste both liquid and solid must be contained in approved waste containers and disposed of off-site according to state and local regulations. Portable sanitary facilities shall be provided at the site throughout the construction phase and must comply with state and local sanitary or septic system.

8. Groundwater and stormwater dewatering:

Groundwater dewatering is not anticipated on the site, except as part of the storm sewer outfall work along the existing drainageway. Stormwater dewatering may be required on the site during construction of structure foundations. If groundwater or stormwater dewatering is required, locations and practices to be implemented to control stormwater pollution from excavations, etc. must be noted on the SWMP. A separate CDPHE construction discharge (dewatering) permit may be required for groundwater dewatering and shall be obtained by the Qualified Stormwater Manager. Construction dewatering water cannot be discharged to surface water or to storm sewer systems without separate permit coverage. The discharge of Construction Dewatering water to the ground, under specific conditions, may be allowed by the Stormwater Construction Permit when appropriate control measures are implemented. Refer to USDCM Volume III (MHFD) for County acceptable means of dewatering.

## V. FINAL STABILIZATION AND LONG TERM STORMWATER MANAGEMENT

“Final stabilization is reached when all ground surface disturbing activities at the site have been completed and uniform vegetative cover has been established with an individual plant density of at least 70 percent of pre-disturbance levels, or equivalent permanent, physical erosion reduction methods have been employed.” When vegetation is used to achieve final stabilization, the 70% vegetation requirement applies to a uniform plant density, which means that all areas of the site that rely on a vegetative cover to achieve stabilization must be uniformly vegetated. The contractor will be responsible for providing the documentation to make this comparison to the County and the State of Colorado, Water Quality Control Division. The stormwater permit allows the permittee to use

alternatives to vegetation to achieve final stabilization. All alternatives to vegetation must meet specific criteria to be considered equivalent to vegetation, specifically: stabilization must be permanent, all disturbed areas must be stabilized and alternatives must follow good practices.

Temporary seeding for the project site shall include seeding and mulching. For the application methods, soil preparation and seeding and mulching requirements, refer to Erosion Control Plans.

All flows from the site reach existing Pond WU, a regional detention facility owned and operated by the Metro District. This provides detention and water quality for the site. Pond WU is off site and will not be affected during construction.

Management of storm water after completion of construction will be accomplished by utilizing the practices listed below.

- Upon completion of construction, the site shall be inspected to ensure that all equipment, waste materials and debris have been removed.
- The site will be inspected to make certain that all graded surfaces have been paved, landscaped or seeded with an appropriate ground cover.
- All silt fence, inlet protection, sediment logs, rock socks, etc. and all other control practices and measures that are to remain after completion of construction will be inspected to ensure their proper functioning.
- The contractor shall remove erosion control measures that are not required to remain.

After all construction activities are completed on the site, but final stabilization has not been achieved, the contractor shall make a thorough inspection of the stormwater management system at least once every month.

The contractor shall be responsible for maintaining the control measures and stormwater controls in good working order and shall also be responsible for the costs incurred until such time as final stabilization is reached. Once final stabilization has been achieved the contractor shall be responsible for removal of the erosion control measures.

Should any of the erosion control measures become in disrepair prior to the establishment of the native or natural erosion control measures, the Contractor is responsible for the cost of such maintenance. The Contractor is also responsible for the clean-up of offsite areas affected by any sediment that may leave the site. Control of erosion from areas disturbed by utility or building construction will be the responsibility of the respective contractor. All erosion control measures shown on the plan shall be installed and maintained in accordance with Best Management Practices. This project does not rely on temporary control measures owned or operated by another entity.

Inactivation of permit coverage: Coverage under the Stormwater Construction Permit may be inactivated by the permittee when the site has attained final stabilization, all temporary erosion and sediment control measures have been removed, and all components of the SWMP are complete.

## VI. RECOMMENDED INSPECTION AND MAINTENANCE PROCEDURES

### A. Minimum Inspection Schedule

The inspector must be a qualified stormwater manager.

1. Frequency. Permittees must conduct the first site inspection within seven calendar days of the commencement of construction activities on site. Permittees must conduct site inspections in accordance with one of the following minimum frequencies:
  - a) At least one inspection every 7 calendar days..

- b) At least one inspection every 14 calendar days, PLUS post-storm event inspections conducted within 24 hours after the end of any precipitation or snowmelt event that causes surface erosion.
    - i. Post-storm inspections may be used to fulfill the 14-day routine inspection requirement.
  - c) A more frequent inspection schedule may be necessary to ensure that control measures continue to operate as needed to comply with the permit.
  - d) Permittees may conduct inspections on either the 7 day or 14 day schedule, and may switch between these schedules as appropriate for the site. The inspection schedule must be noted on the inspection reports, as noted below.
  - e) When site conditions make the required schedule impractical, the permittee may petition the division to grant an alternate inspection schedule. The alternative inspection schedule may not be implemented prior to written approval by the division and incorporation into the plan.
  - f) Permittees must conduct site inspections at least once every 7 calendar days for sites that discharge to a water body designated as an Outstanding Water by the Water Quality Control Commission.
2. Consult State Permit No. COR-400000 for alternate inspection requirements at temporarily idle sites, at completed sites or for winter conditions.
  3. Refer to the Control Measure Details for the maintenance procedures associated with each control measure.
  4. Inspection Procedures. Inspect the following areas for evidence of, or the potential for, pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters:
    - Construction site perimeter;
    - All disturbed areas;
    - Designated haul routes;
    - Material and waste storage areas exposed to precipitation;
    - Locations where stormwater has the potential to discharge offsite; and
    - Locations where vehicles exit the site.
 Inspections must include the following requirements:
    - Visually verify whether all implemented control measures are in effective operational condition and are working as designed in their specifications to minimize pollutant discharges.
    - Determine if there are new potential sources of pollutants.
    - Assess the adequacy of control measures at the site to identify areas requiring new or modified control measures to minimize pollutant discharges.
    - Identify all areas of non-compliance with the Construction Stormwater Permit requirements and, if necessary, implement corrective action as described below.
  5. Inspection Checklist/Report. The Permittee must document inspection results and maintain a record of the results for a period of 3 years following

expiration or inactivation of permit coverage. These records must be made available to CDPHE, the County or EPA upon request. The Qualified Stormwater Manager should record the inspection results on a site-specific standardized inspection report to be maintained and kept on the construction site. The CDPHE Construction Stormwater Site Inspection Report form is provided in the Appendix. Descriptions of corrective actions for any item, date(s) of corrective actions taken, and measures taken to prevent future violations, including requisite changes to the SWMP, as necessary.

#### **B. Control Measure Operation and Maintenance.**

The Qualified Stormwater Manager is responsible for operation and maintenance of construction control measures. The Qualified Stormwater Manager will inspect the site per inspection and monitoring protocol outlined above and in the control measure details and will make any necessary repairs to construction control measures immediately after a defect or other need for repair is discovered. The project site and the adjacent streets impacted by the construction shall be kept neat, clean and free of debris. The erosion control measures and facilities will be maintained in good working order until final stabilization. Any items that are not functioning properly or are inadequate will be promptly repaired or upgraded. Records of inspections must be kept and be available for review by the State of Colorado Water Quality Control Division or the County.

##### **Corrective Actions:**

The permittee must assess the adequacy of control measures at the site, and the need for changes to those control measures, to ensure continued effective performance.

When an inadequate control measure is identified (i.e., new or replacement control measures become necessary), the following corrective action requirements apply. The permittee is in noncompliance with the Construction Stormwater Permit until the inadequate control measure is replaced or corrected and returned to effective operating condition.

- The permittee must take all necessary steps to minimize or prevent the discharge of pollutants, until a control measure is implemented and made operational and/or an inadequate control measure is replaced or corrected and returned to effective operating condition.
  - If it is infeasible to install or repair of control measure immediately after discovering the deficiency, the following information must be documented and kept on record:
    - Describe why it is infeasible to initiate the installation or repair immediately; and
    - Provide a schedule for installing or repairing the control measure and returning it to an effective operating condition as soon as possible.
  - If applicable, the permittee must remove and properly dispose of any unauthorized release or discharge (e.g., discharge of non-stormwater, spill, or leak not authorized by the Construction Stormwater Permit). The permittee must also clean up any contaminated surfaces to minimize discharges of the material in subsequent storm events.

##### **Other Required noncompliance Notifications**

The permittee shall report the following circumstances orally within twenty-four (24) hours from the time the permittee becomes aware of the circumstances, and shall mail to the division a written report containing the information requested within five (5) working days after becoming aware of the following circumstances:

Circumstances leading to any noncompliance which may endanger health or the environment regardless of the cause of the incident (these types of circumstances would primarily result from the discharge of pollutants in violation of the Construction Stormwater Permit);

- Circumstances leading to any unanticipated bypass which exceeds any effluent limitations in the Construction Stormwater Permit;
- Circumstances leading to any upset which causes an exceedance of any effluent limitation in the Construction Stormwater Permit;
- Daily maximum violations for any of the pollutants limited by Part I of the Construction Stormwater Permit. This includes any toxic pollutant or hazardous substance or any pollutant specifically identified as the method to control any toxic pollutant or hazardous substance (these types of circumstances would primarily result from an exceedance of a numeric effluent).

## VII. REFERENCES

- 1) CDPS General Permit: Stormwater Discharges Associated with Construction Activity Permit No. COR-400000. Colorado Department of Public Health and Environment.
- 2) CDPHE, Stormwater Discharges Associated with Construction Activity, Stormwater Management Plan Preparation Guidance, prepared by CDPHE.
- 3) Volume 1 and 2, City of Colorado Springs, Drainage Criteria Manual, by City of Colorado Springs, current edition.
- 4) Volume 3, Urban Storm Drainage Criteria Manual, by Mile High Flood District, current edition.

## **APPENDIX TABLE OF CONTENTS**

### **APPENDIX**

Vicinity Map

### **APPENDIX A**

\*\*Permittee Provided: Application for CDPS Stormwater Discharge Associated with Construction Activities Permit

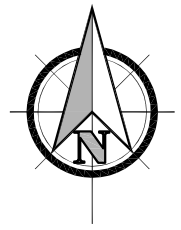
### **APPENDIX B**

\*\*Permittee Provided: CDPS Stormwater Discharge Associated with Construction Activities Permit

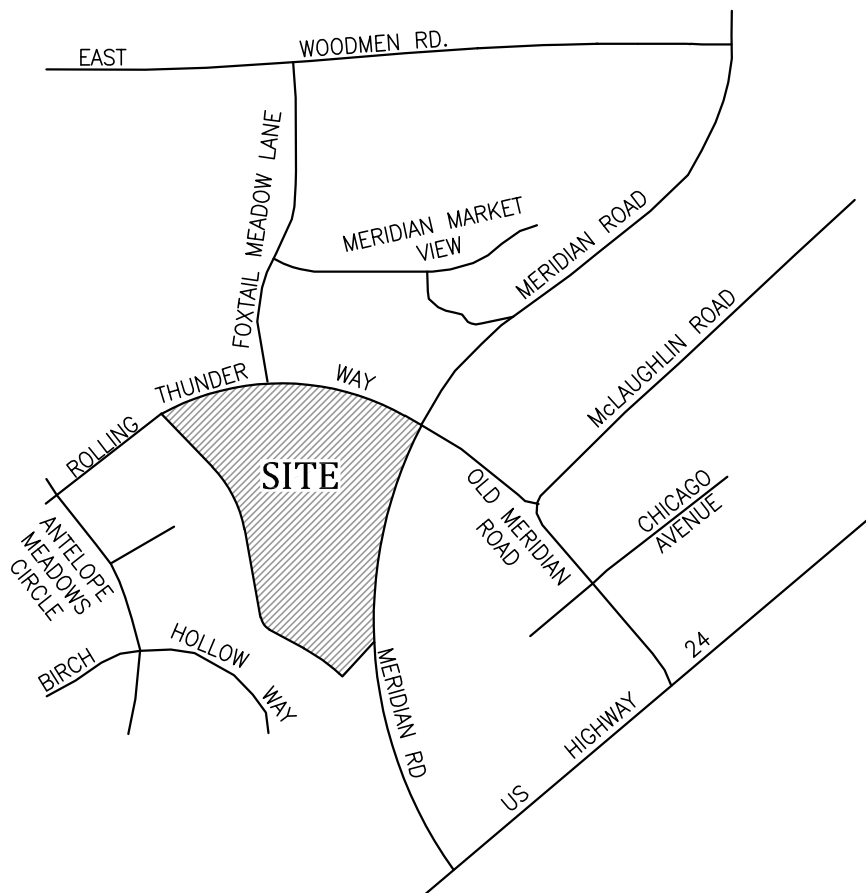
### **APPENDIX C**

CDPHE Construction Stormwater Site Inspection Report

**APPENDIX**  
**Vicinity Map**



SCALE: NTS



**FIGURE 1**  
VICINITY MAP  
U-HAUL FALCON



**APPENDIX A**

**\*\*Permittee Provided:** Application for CDPS Stormwater Discharge Associated  
with Construction Activities Permit

**APPENDIX B**

**\*\*Permittee Provided: CDPS Stormwater Discharge Associated with Construction Activities Permit**

**APPENDIX C**  
**CDPHE Construction Stormwater Site Inspection Report**

# CONSTRUCTION STORMWATER SITE INSPECTION REPORT

Facility Name		Permittee					
Date of Inspection		Weather Conditions					
Permit Certification #		Disturbed Acreage					
Phase of Construction		Inspector Title					
Inspector Name							
Is the above inspector a qualified stormwater manager? (permittee is responsible for ensuring that the inspector is a qualified stormwater manager)			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">YES</td> <td style="width: 50%; text-align: center;">NO</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	YES	NO	<input type="checkbox"/>	<input type="checkbox"/>
YES	NO						
<input type="checkbox"/>	<input type="checkbox"/>						

INSPECTION FREQUENCY					
Check the box that describes the minimum inspection frequency utilized when conducting each inspection					
At least one inspection every 7 calendar days	<input type="checkbox"/>				
At least one inspection every 14 calendar days, with post-storm event inspections conducted within 24 hours after the end of any precipitation or snowmelt event that causes surface erosions	<input type="checkbox"/>				
<ul style="list-style-type: none"> <li>• This is this a post-storm event inspection. Event Date: _____</li> </ul>	<input type="checkbox"/>				
Reduced inspection frequency - Include site conditions that warrant reduced inspection frequency	<input type="checkbox"/>				
<ul style="list-style-type: none"> <li>• Post-storm inspections at temporarily idle sites</li> </ul>	<input type="checkbox"/>				
<ul style="list-style-type: none"> <li>• Inspections at completed sites/area</li> </ul>	<input type="checkbox"/>				
<ul style="list-style-type: none"> <li>• Winter conditions exclusion</li> </ul>	<input type="checkbox"/>				
Have there been any deviations from the minimum inspection schedule? If yes, describe below.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">YES</td> <td style="width: 50%; text-align: center;">NO</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	YES	NO	<input type="checkbox"/>	<input type="checkbox"/>
YES	NO				
<input type="checkbox"/>	<input type="checkbox"/>				

INSPECTION REQUIREMENTS*
i. Visually verify all implemented control measures are in effective operational condition and are working as designed in the specifications
ii. Determine if there are new potential sources of pollutants
iii. Assess the adequacy of control measures at the site to identify areas requiring new or modified control measures to minimize pollutant discharges
iv. Identify all areas of non-compliance with the permit requirements, and if necessary, implement corrective action
*Use the attached <b>Control Measures Requiring Routine Maintenance</b> and <b>Inadequate Control Measures Requiring Corrective Action</b> forms to document results of this assessment that trigger either maintenance or corrective actions

AREAS TO BE INSPECTED			
Is there evidence of, or the potential for, pollutants leaving the construction site boundaries, entering the stormwater drainage system or discharging to state waters at the following locations?			
	NO	YES	If "YES" describe discharge or potential for discharge below. Document related maintenance, inadequate control measures and corrective actions <b>Inadequate Control Measures Requiring Corrective Action</b> form
Construction site perimeter	<input type="checkbox"/>	<input type="checkbox"/>	
All disturbed areas	<input type="checkbox"/>	<input type="checkbox"/>	
Designated haul routes	<input type="checkbox"/>	<input type="checkbox"/>	
Material and waste storage areas exposed to precipitation	<input type="checkbox"/>	<input type="checkbox"/>	
Locations where stormwater has the potential to discharge offsite	<input type="checkbox"/>	<input type="checkbox"/>	
Locations where vehicles exit the site	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	





## REPORTING REQUIREMENTS

The permittee shall report the following circumstances orally within twenty-four (24) hours from the time the permittee becomes aware of the circumstances, and shall mail to the division a written report containing the information requested within five (5) working days after becoming aware of the following circumstances. The division may waive the written report required if the oral report has been received within 24 hours.

<b>All Noncompliance Requiring 24-Hour Notification per Part II.L.6 of the Permit</b>		
<b>a. Endangerment to Health or the Environment</b> Circumstances leading to any noncompliance which may endanger health or the environment regardless of the cause of the incident (See Part II.L.6.a of the Permit) <i>This category would primarily result from the discharge of pollutants in violation of the permit</i>		
<b>b. Numeric Effluent Limit Violations</b> <ul style="list-style-type: none"> <li>o Circumstances leading to any unanticipated bypass which exceeds any effluent limitations (See Part II.L.6.b of the Permit)</li> <li>o Circumstances leading to any upset which causes an exceedance of any effluent limitation (See Part II.L.6.c of the Permit)</li> <li>o Daily maximum violations (See Part II.L.6.d of the Permit)</li> </ul> <i>Numeric effluent limits are very uncommon in certifications under the COR400000 general permit. This category of noncompliance only applies if numeric effluent limits are included in a permit certification.</i>		

Has there been an incident of noncompliance requiring 24-hour notification?	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	If "YES" document below

Date and Time of Incident	Location	Description of Noncompliance	Description of Corrective Action	Date and Time of 24 Hour Oral Notification	Date of 5 Day Written Notification *

\*Attach copy of 5 day written notification to report. Indicate if written notification was waived, including the name of the division personnel who granted waiver.

After adequate corrective action(s) and maintenance have been taken, or where a report does not identify any incidents requiring corrective action or maintenance, the individual(s) designated as the Qualified Stormwater Manager, shall sign and certify the below statement:

“I verify that, to the best of my knowledge and belief, all corrective action and maintenance items identified during the inspection are complete, and the site is currently in compliance with the permit.”

\_\_\_\_\_  
Name of Qualified Stormwater Manager

\_\_\_\_\_  
Title of Qualified Stormwater Manager

\_\_\_\_\_  
Signature of Qualified Stormwater Manager

\_\_\_\_\_  
Date

Notes/Comments