(This SWPPP Template is for the **Common Plan** Permit Only, and does **NOT** address SWPPP requirements found in the CGP.)

# Common Plan SWPPP for Slater residence

**Legends at Hawkins Creek** 

1668 High Plains rd. Huntsville, Utah 84317

Sam Slater

23 Meadow Brook Pl. Woodland, TX 77354

K. Roberts Construction Inc.

57 s 2625 e

Layton, Utah 84040

Date

3/28/2016



1. Project Information

D				
Ado City Lati Lon	ject Name: Slater residence Iress: 1688 High Plains : Huntsville tude: 41 14'13.8048"n gitude: 111 47' 21.2496" w DES Permit Tracking Number: Click here to enter t	State: UT	<b>Zip:</b> 84317	
Con Add City: Tele	ner: Sam Slater tact Person: Sam ress: 23 Meadow Brook Pl. The Woodlands phone Number: 936-689-2115 il Address: jennieslater@Gmail.com	State: TX	<b>Zip:</b> 77382	
Cont Addr City: Teler	eral Contractor: K. Roberts Construction Inc. lact Person: Kyle Roberts less: 57 s. 2625 e. Layton Dhone Number: 801-791-1689 I Address: krobe10184@aol.com	State UT	<b>Zip:</b> 84040	
2. F	Pollution Sources/Best Manager	ment Practices		
	Answer yes or no whether the following features a used to protect each feature. If no, continue to the proper installation in Appendix L, and show location	re located at your site. If yes,	any illustrated detect	at will be s for
2.1	Is there a SWPPP sign on site? (see permit part 1.7) The sign must include the UPDES tracking number and email, and if the SWPPP is on-line, instruction	10) er, the owner or general contr	V	<b>No</b> □ number
2.2	Will there be non-stormwater discharges on the Construction Dewatering (if discharged offsite) mpart 2.7). Further, cleaning of tools and equipmen 2.4.5 & 2.9).	e site? (see permit part 1.3)	Yes ☐ mit UTG070000 (see cic lined pit (see perm	No X permit it part
2.3			Yes ☐ Wattles	No X
2.4	Will there be stockpiles on the site?  Note: Select "Contained by other BMP" if another CANNOT be placed in the street. (see permit part 2.:  BMP(s): Silt Fence Sta  Other: Click here to enter text.  Contained by other BMP. Explain: Cl	1.1) ked Straw Wattle	Yes ☐ runoff from the stood Covering	No X Ekpiles

2.5	Note: A demonst	ace waters located within 30 fee a SWPPP sign on site? (see permit 30' natural vegetative buffer MU trate that the additional controls e reason for exemption below. (see	t part 1.10) ST be used if possible. If a buffer I offer the same protection as a 30	less than 30' is	<b>Yes</b> □ used, you n tative buffer	No X nust r, and
	BMP(s):	<ul><li>☐ 30' Natural Vegetative Buff</li><li>☐ 2 Silt Fence Barrier</li></ul>	er X Less than 1 a	acre Disturban attle Barriers (I Click here to	Fiber Roll)	
2.6	Does you	ır site have steep slopes (greate	r <b>than 70%)?</b> (see permit part 2.3.2)	)	Yes □	No X
	BMP(s):	<ul><li>☐ Erosion Control Blanket</li><li>☐ Hydroseed</li><li>☐ Other: Click here to enter</li></ul>	<ul><li>☐ Minimum Disturbance</li><li>☐ Mulch</li></ul>	☐ Seeding☐ Takifiers☐		140 %
2.7	What per	rimeter and sediment controls w Silt Fence Sediment Basin Vegetative Buffer Other: Click here to enter te	rill be used on the site? (see perm X Straw Wattles (Fiber Rolls) □ Swales □ Cut-Back-Curb xt.	it part 2.1.2 & 2. X Sediment X Berms		
2.8	Where is,	are the nearest downstream inl		2.1.3)		
	BMP(s):	X Rock/Sand-filled Bags ☐ Filter Fabric ☐ Other: Click here to enter text	☐ Drop Inlet Bags	☐ Inlet Wat	tles	
2.9	Note: If co	ramps be used at the site?  urb ramps are used it must be done 2.4.2)  X Crushed Rock  Other: Click here to enter t	ne with material that will not was  Wood Dunnage ext.	sh away in stor	<b>Yes X</b> mwater. (se	<b>No</b> □
2.10	What dus BMP(s):	t control BMP(s) will be used? X Wetting with Water  Other: Click here to enter t	ext.			
2.11	What trac BMP(s):	k out control will be used on the  Track Out Pad  Rumble Strips  X Limited Site Access  Other: Click here to enter to	<ul><li>☐ Cobble</li><li>☐ Wash Down Pad</li><li>☐ Selective Access During Dry V</li></ul>	X Gravel ☐ Delivery Pa	ad	
2.12	How will s BMP(s):	olid waste be dealt with on the s ☐ Bag Lightweight Trash ☐ Other: Click here to enter to	X Leak Proof Dumpsters	Receptacle	s with Lids	
2.13	BMP(s):	on-aqueous liquid waste (oil, sol X Contained and Removed from Other: Click here to enter to				
2.14	BMP(s):	poils (extra or left over dirt) be color Cover Erodible Material  Other: Click here to enter te	☐ Runoff Containment	X Haul Off Pol	icy	

2.15	How will BMP(s):	x Portable Toilet(s) (must ☐ Onsite or Adjacent Ind ☐ Portable Toilet Second ☐ Other: Click here to e	be staked down & 10 oor Bathrooms ary Containment	nit part 2.4.4) I' from curb)	
2.16	How will BMP(s):	concrete wash water be co X Lined Depression ☐ Regional Washout (per ☐ Other: Click here to e	development)	(see permit part 2.4 □ Steel Dump	
2.17	What con BMP(s):	ntrols will be used for const  Covering Erodible or Lie X Strategic Storage and Sta  Other: Click here to ea	quid Materials aging	red on site?	Containment
2.18	What con BMP(s):	trols will be in place for equal reactions will be in place for equal reactions. The control of	w/Spill Kit	ntenance, and wa X Offsite O+M	ashing?
2.19	How will	sediment be contained on s	site until home owne	r completes land	!2
	BMP(s):	☐ Landscaping  X Perimeter Controls  ☐ Cut-Back-Curb  ☐ Other: Click here to er	☐ Swales ☐ Vegetated E ☐ Leave Front		<ul><li>☐ Rock Filters</li><li>☐ Native Vegetative Barriers</li></ul>
Note ti aware	hat any mai of compron	intenance required to ensure		ning must be done	within 72 hours of becoming
3. S	ite Map	0			

On a blank page (or include a page from the architectural drawings that show site layout and dimensions), please draw a chart (and place this chart in Appendix B) showing the layout of the site including locations of:

- 1. boundaries of project/property
- 2. boundaries of disturbance (including areas outside of property boundaries)
- 3. show slopes on site
- 4. location of structures/facilities
- 5. locations of:
  - a. stockpiles for soils and materials
  - b. construction supplies
  - c. portable toilets
  - d. garbage/trash containers
  - e. egress points/track out pads
  - f. concrete washout pits or containers
- 6. water bodies, wetlands, natural vegetative buffers
- 7. placement of all BMPs, perimeter, erosion control, sediment control, inlet, etc.
- 8. storm water inlets and storm water discharge points (where storm water drains off the site)
- 9. areas that will be temporarily or permanently stabilized on the site

## 4. Spill Prevention and Response Plan

Describe the spill prevention and control plan to include ways to reduce the chance of spills, stop the source of spills, contain and cleanup spills, dispose of materials contaminated by spills, and train personnel responsible for spill prevention and control. Additionally, fill in all BLUE fields below.

#### Spill Plan:

- Store hazardous substances not used daily in cabinets, or in designated areas; - All chemicals that are transferred from larger to smaller containers must be transferred by use of a funnel or spigot.-

All hazardous substance containers should be closed while not in use; Use drip pans or other collection devices to contain drips or leaks from dispensing containers or equipment; Implement preventative maintenance activities to reduce the potential for release from equipment;

Immediately clean up and properly manage all small spills or leaks;- Periodically inspect equipment and hazardous substance storage areas to ensure leaks or spills are not occurring;- Use signage to identity hazardous substance storage or waste collection areas;- Keep all work areas and hazardous substance storage areas clean and in good general condition

Any discharges in 24 hours equal to or in excess of the reportable quantities listed in 40 CFR 117, 40 CFR 110, and 40 CFR 302 will be reported to the National Response Center and the Division of Water Quality (DWQ) as soon as practical after knowledge of the spill is known to the permittee. The permittee shall submit within 14 calendar days of knowledge of the release a written description of: the release (including the type and estimate of the amount of material released), the date that such release occurred, the circumstances leading to the release, and measures taken and/or planned to be taken to the Division of Water Quality (DWQ), 288 North 1460 West, P.O. Box 144870, Salt Lake City, Utah 84114-4870. The Storm Water Pollution Prevention Plan must be modified within14 calendar days of knowledge of the release to provide a description of the release, the circumstances leading to the release, and the date of the release. In addition, the plan must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

Agency	Phone Number
National Response Center	(800) 424-8802
Division of Water Quality ( DWQ) 24-Hr Reporting	(801) 538-6146; (801) 536-4123
Utah Department of Health Emergency Response	(801) 580-6681
Morgan Fire Department	801-876-2277

Minimum spill quantities requiring reporting:

Material	Media Released To	Reportable Quantity
Engine oil, fuel, hydraulic & brake fluid	Land	25 gallons
Paints, solvents, thinners	Land	100 lbs (13 gallons)
Engine oil, fuel, hydraulic & brake fluid	Water	Visible Sheen
Refrigerant	Air	1 lb
Antifreeze, battery acid, gasoline, engine degreasers	Air, Land, Water	100 lbs (13 gallons)

#### Emphasis to:

1<sup>st</sup> Priority: Protect all people (including onsite staff)

2<sup>nd</sup> Priority: Protect equipment and property

3<sup>rd</sup> Priority: Protect the environment

- 1. Make sure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of any person.
- 2. Check for hazards (flammable material, noxious fumes, cause of spill) if flammable liquid, turn off engines and nearby electrical equipment. If serious hazards are present leave area and call 911. LARGE SPILLS ARE LIKELY TO PRESENT A HAZARD.
- 3. Stop the spill source and contain flowing spills immediately with spill kits, dirt or other material that will achieve containment.
- 4. Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers
- 5. If spilled material has entered a storm sewer, regardless of containment; contact the City Stormwater Division.
- Cleanup all spills (flowing or non-flowing) immediately following containment. Clean up spilled
  material according to manufacturer specifications, for liquid spills use absorbent materials AND
  DO NOT FLUSH AREA WITH WATER.
- 7. Properly dispose of cleaning materials and used absorbent material according to manufacturer specifications.
- 8. Report the reportable quantity to the Saratoga Springs City Stormwater Division.

#### **Emergency Numbers**

Utah Hazmat Response Officer 24 hrs	(801)-538-3745
City Police Department	801-778-6600
City Engineering Division	801-399-8004

## 5. SWPPP, Inspections and Corrective Action Reports

Inspection Schedule and Procedures: The permit requires inspections once a week (see permit Part 3). You must list and provide details of your BMPs in Appendix L. Inspection reports require reporting on BMPs and how effective they are. You may be required to maintain, modify, remove, or apply/install more or different BMPs to control pollutants on the site. Please number your BMPs in Appendix L and refer to those numbers on your inspection reports and corrective action reports when you inspect or report on them.

Describe the general procedures for correcting problems when they are identified. Include responsible staff and time frames for making corrections:

Kyle Roberts general contractor to inspect job site weekly and fill out reports. Identify problem areas and notify subcontractors in a timely manner to correct problems.

**Corrective Actions:** All corrective actions must be logged using the "Correction Action Log" attached in Appendix F. The log should be filled out completely for each corrective action.

## 6. Changes to the SWPPP

All changes to this SWPPP must be logged in the "Amendment Log" in Appendix G. The log should be filled out completely for each amendment to the SWPPP.

## 7. Record Keeping

The following items should be kept at the project site available for inspectors to review:

- 1. Dates of grading, construction activity, and stabilization
- 2. A copy of the construction general permit (Appendix C)
- 3. The signed and certified NOI form (Appendix D)
- 4. Inspection reports (Appendix E)

## 8. Delegation of Authority (if any)

**Duly Authorized Representatives or Positions:** 

Company/Organization: K. Roberts Construction Inc.

Name: Kyle Roberts

Position: General Contractor

Address: 57 s 2625 e

City: Layton State: Ut Zip: 84040

Telephone: 801-791-1689 Fax/Email: krobe10184@aol.com

Note: Any additional information (i.e. memoranda, agreements, etc.) should be attached in Appendix H.

9. Discharge Information	
Does your project/site discharge storm water into a Mu	nicipal Separate Storm Sewer System (MS4)?
☐ Yes	Y No

MS4 receiving the discharge from the construction project: Click here to enter text.

Receiving Waters (look up <a href="http://wq.deq.utah.gov">http://wq.deq.utah.gov</a> to identify your receiving water body)

Enter the name(s) of the first surface water(s) that receives stormwater directly from your site and/or from the MS4 listed above. Note: multiple rows provided in the case that your site has more than one point of discharge in which each flows to different surface waters.

- 1. Pineview reservoir
- 2. Single to enter name of receiving waters. SMITH CREEK
  3. Click here to enter name of receiving waters. PINE VIEW RESAUBIIZ
- Click here to enter name of receiving waters.

Impaired Waters (refer to <a href="http://wq.deq.utah.gov">http://wq.deq.utah.gov</a> in the left hand column to determine status of receiving water body).

Select any impaired surface water(s) that your site will discharge to, either directly or through the MS4 selected above.

Impaired Surface Water	Is this surface water impaired?		Tida a HAIDE DE			Pollutant(s) for which there is a TMDL
Click here to enter text.	☐ Yes	□ No	Click here to enter text.	☐ Yes	□ No	Click here to enter text.
Click here to enter text.	☐ Yes	□ No	Click here to enter text.	☐ Yes	□ No	Click here to enter

## 10. Certification and Notification

I, Kyle Roberts, 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 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.

Construction Operator:

This SWPPP should be signed and certified by the construction operator(s). Attach certifications in Appendix H.

## **SWPPP Appendices**

Ensure the following documentation is attached to the SWPPP:

Appendix A: General Location Map

Appendix B: SWPPP Site Maps

**Appendix C: Construction General Permit Regulation** 

Appendix D: Acknowledgement Letter from City Name Here.

**Appendix E: Inspection Reports** 

**Appendix F: Corrective Action Log** 

Appendix G: SWPPP Amendment Log

Appendix H: Certifications, Agreements, and Delegation of Authority

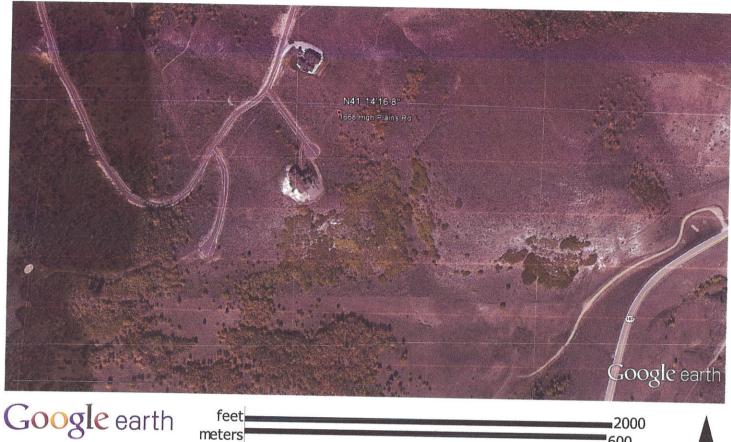
Appendix I: Grading and Stabilization Activities Log

**Appendix J: Construction Plans** 

Appendix K: Additional Information (i.e. permits such as local permits, dewatering, stream alteration, wetland, and out of date SWPPP documents, etc.)

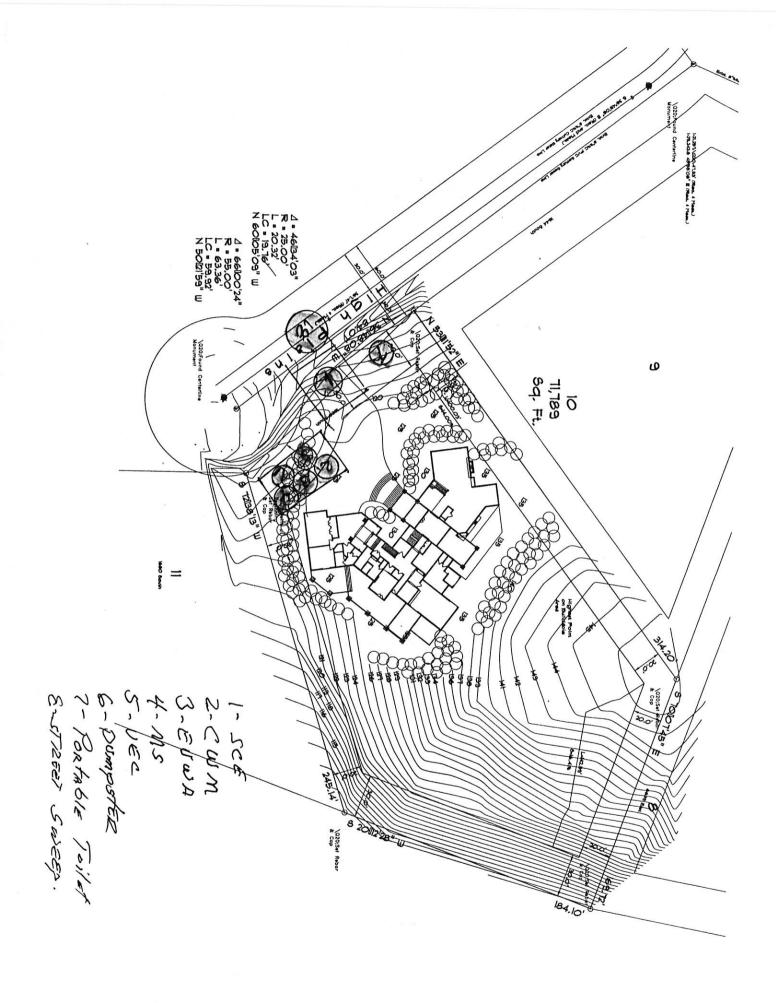
Appendix L: BMP Specifications and Details (label BMPs to match the sections identified in this document.)

APPENDIX A: Site Map



feet meters **2**000 600

APPENDIX B: SWPPP Site Maps



**APPENDIX C: Construction General Permit Regulation** 

Appendix C

## General Permit for Storm Water Discharges from Construction Activities STATE OF UTAH, DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER QUALITY

General Storm Water Permit for Construction Activity
Connected with Single Lot Housing Projects
Utah Pollution Discharge Elimination System Permit No. UTRH00000
(Common Plan Permit)

This Permit is issued in compliance with the provisions of the Utah Water Quality Act (Utah Code Annotated 19-5, as amended) the federal Water Pollution Control Act (33 United States 1251 et. seq., as amended by the Water Quality Act of 1987, Public Law 100-4), and the rules and Regulations made pursuant to those statutes.

This permit applies to "construction activity" for a single lot disturbing a total of one acre or less and for construction activities related to residential dwellings. A single lot covered by this permit is part of a common plan of development or sale (see definitions in Part 6).

Issuance of this permit does not authorize any permittee to violate water quality standards. The permittee shall develop best management practices (BMPs) and engage in activities that will protect water quality during the construction project.

This permit shall become effective on February 1, 2016.

This permit and the authorization to discharge expire at midnight on January 31, 2021.

Signed this Oday of January, 2016

Walter L. Baker, P.E.

Director

DWQ-2016-002081

B

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- 1. COVERAGE UNDER THIS PERMIT. Conditions for coverage under this permit.
  - 1.1. <u>Coverage Limitations</u>. A project site (see definition of a project site in Part 6) is eligible for this permit if it meets the following requirements:
    - 1.1.1. It is found within the State of Utah but is not in Indian Country,
    - 1.1.2. The construction activity is related to residential building on an individual lot or parcel.
    - 1.1.3. It disturbs a total of one acre or less over the duration of the construction project,
    - 1.1.4. Multiple site coverage:
      - 1.1.4.a. This permit may apply to multiple lots with the contingency that each lot be covered under a different permit tracking number (separate permit coverage for each lot). Lots do not necessarily need to be located within the same sub-division.
      - 1.1.4.b. If multiple lot coverage is desired under one permit, it may be obtained under the General Permit for Discharges from UPDES Permit No. UTRC00000. Multiple lots may be covered under one tracking number (one permit coverage) provided that UTRC00000 is the controlling permit, and all lots covered under that tracking number are within the same sub-division.
  - 1.2. <u>Discharges Allowed</u>. This permit allows discharges of storm water from construction activity at a project site, provided the storm water discharge meets the requirements within this permit.
  - 1.3. Non-Storm Water Discharges. Other non-storm water discharges that are allowed are:
    - 1.3.1. Flushings from potable or irrigation water sources where they have not been used for a washing or cleaning activity;
    - 1.3.2. Water used for dust control;
    - Spring water and groundwater that have not been soiled with sediment or other pollutants from construction activity;
    - 1.3.4. Emergency fire-fighting activities, and;
    - 1.3.5. Footing drains that have not been soiled from construction activity.
- 1.4. How to Obtain Permit Coverage. The permit may be obtained online at the Utah Department of Environmental Quality (DEQ) UPDES Permits website at http://www.waterquality.utah.gov/UPDES/stormwatercon.htm. Click on "Application for a Storm Water Permit". Create an account, or if an account has already been created, proceed with providing the information requested. The notice of intent (NOI) for this permit is the same NOI that is used for the UTRC00000 permit. To complete the application process the permittee must pay a permit fee. The NOI may be filled out electronically using the online permit application system. The NOI can also be submitted using a paper form obtained from the same website cited above along with the permit fee. The paper form and fee can either be hand delivered to Utah Division of Water Quality [DWQ], 195 North 1950 West, Salt Lake City, Utah, 3rd floor in the MASOB building, or mailed to DWQ, P.O. Box 144870, Salt Lake City, Utah 84114-4870. When a party receives coverage under the permit, they will receive a permit

- tracking number and the opportunity to copy the NOI for "proof of coverage." A copy of this permit may be downloaded from the DEQ website at http://www.deq.utah.gov/Permits/water/updes/stormwatercon.htm.
- 1.5. Signature on the NOI. The owner and the general contractor, which in some cases could be the same party, must sign the paper copy of the NOI (see 5.16.1.a) and place it in the storm water pollution prevention plan (SWPPP) (see 4.2.8).
- 1.6. <u>Permit Renewal</u>. This permit must be renewed yearly on the anniversary date of the original permit application. This is done by logging onto the account created at the time of NOI application, refreshing the information on the NOI, and paying the yearly permit fee.
- 1.7. Start and end of Permit Coverage. Permit coverage begins immediately upon completion and submission of an NOI and the permit fee. If the NOI is submitted electronically on-line permit coverage begins on that day. If the NOI is submitted by mail permit coverage begins when the NOI is received and entered into the on-line data base by DWQ staff. For projects within the jurisdiction of a regulated MS4 (see definitions in Part 6; the list of regulated MS4's is found on http://www.deq.utah.gov/Permits/water/updes/stormwatermun.htm), the permittee must also notify and receive approval for the project from the regulated MS4 having jurisdiction before the project may commence (see 4.2.10.). The permit fee is an annual fee that must be paid yearly on the anniversary date of permit issuance. The permit will remain effective until or unless any of the following occurs:
  - 1.7.1. The permittee completes the notice of termination (NOT) process, as outlined in section 1.8,
  - 1.7.2. The permittee fails to submit the yearly permit fee,
  - 1.7.3. Aside from permit coverage, which may be renewed annually by the permittee, as needed, this general permit expires every 5 years and normally is renewed through a public notice process by DWQ. In the event that the permit nears the end of its 5 year cycle, and the year of permit coverage for a construction site extends beyond the expiration date for the permit, the permittee must request continuing coverage through the permit renewal process. Otherwise permit coverage for a construction site will terminate when the general permit expires. Renewal of permit coverage can be done in the online electronic storm water data base up to 12 months prior to the expiration of the permit, or by letter received by DWQ before the expiration date of the specific permit coverage in question where concurrently all entries in the NOI can be updated as needed.
    - 1.7.3.a. If a renewal permit has been issued and is in place at the expiration date of this permit, this permit will terminate and coverage under the renewed permit will begin on the expiration date unless 1.7.1 has been invoked by the permittee.
    - 1.7.3.b. If a renewal permit has not been issued, this permit will be administratively extended until a renewal permit is issued or it is determined that this permit will not be continued. If a renewal permit is issued, and the permittee indicated a desire for continuing coverage under the new permit, coverage

will continue for the permittee under the new permit coverage unless 1.7.1 is invoked. If the permit is discontinued, the permittee must continue coverage under another general permit or an individual permit.

- 1.7.4. Coverage under this permit is rescinded or revoked for administrative reasons. In this case, the permittee will be notified in writing from the Director and will be required to apply for coverage under a different general or individual UPDES permit. This permit is terminated on the day coverage under another permit begins.
- 1.8. Notice of Termination. The permittee must terminate the permit by submitting an NOT when the project is completed. The NOT must be filed and retained for 3 years after the permit has been terminated (see 3.7). To terminate the permit, the permittee must comply with either 1.8.1 or 1.8.2, outlined below, and must comply with 1.8.3 if the project is within the jurisdiction of a regulated MS4 (see http://www.deq.utah.gov/Permits/water/updes/stormwatermun.htm for regulated MS4s):
  - 1.8.1. The landscaping is completed and the site meets "final stabilization" requirements (see part 6, definitions, for final stabilization).
  - 1.8.2. When a project (residential building) is completed but 'final stabilization' is not established, the building must be in process of being sold and ready for homeowners to take possession. If built by the homeowners, they must be in the process of moving in or already have moved in the house. The lot must have perimeter controls on downslope boundaries and surface stabilization controls on all surfaces that are 20 % (1 to 5 slope, or 11.3 derees) or greater to prevent erosion and soil migration offsite;
  - 1.8.3. The permittee must submit a paper copy of a NOT form to the MS4 of jurisdiction and schedule a final inspection (with the MS4). Termination is complete upon approval of the final inspection from the local MS4, or from DWQ if outside the jurisdiction of a regulated MS4.
- 1.9. Water Quality: Through the design of appropriate BMPs, it is expected that the permittee will achieve compliance with water-quality standards. If additional information becomes available indicating a project site is causing or is contributing to a violation of water quality standards or an existing total maximum daily load (TMDL), coverage under this permit may be revoked or rescinded, and the permittee may be required to get coverage under an individual UPDES permit or another UPDES general permit. If this occurs, the owner and the general contractor will be notified in writing by the Director and given instructions on how they must proceed.
- 1.10. Requirement to Post a Notice of Permit Coverage. The permittee must post a sign at the project site that includes the UPDES Permit tracking number, owner or general contractor contact name, a phone number for the owner or general contractor, an email address for the owner or general contractor, and in the case of an electronic SWPPP, a web address or information on how to access the electronic SWPPP. The notice must be posted with lettering large enough to be readable from a public right-of-way.

## 2. POLLUTION PREVENTION REQUIREMENTS

- 2.1. Structural Controls. Minimize sediment transport off the site as follows:
  - 2.1.1. Stockpiled Material. Stockpiled material must not be stored on an impervious surface, except a material that will not be transported with precipitation, such as two-inch graded and washed gravel, unless it will be permanently placed and the holding area will be swept clean the same day it is dropped. If stored temporarily for more than a day, it must be placed as far as feasibly possible from roads or other impervious surfaces, storm water inlets, or water bodies, and with stockpile perimeter runoff controls utilized.
  - 2.1.2. Perimeter Controls. Perimeter controls such as silt fences, straw wattles, other filter berms, cut back curbs, vegetative buffers, etc., must be properly placed on the downslope sides of the project to prevent sediment from leaving the site during a storm event. As perimeter controls become loaded to 1/3 of capacity, they must be cleaned.
  - 2.1.3. Inlet Protection. Storm-drain inlets on the project site and on adjacent roads immediately down gradient from the site must be protected if they receive drainage from the active constructionsite. Protection may be, but is not limited to, rock wattles, sand bags, proprietary devices, or other. Rock wattles and sand bags are not advised for use in winter because they can be destroyed or removed by snow plows.
- 2.2. <u>Protection of Critical or Sensitive Areas</u>: Critical or sensitive areas such as preservation of the drip line around trees, wetlands, buffer zones by water bodies, etc., must be separated and isolated by clearly marking the areas with environmental fencing.
- 2.3. Managing the Site to Minimize Sediment Transport Offsite.
  - 2.3.1. The total area of soil disturbance at any one time must be minimized by disturbing only the area necessary to complete that stage of construction in the construction process.
  - 2.3.2. Soil disturbances on steep slopes must be minimized. For purposes of this permit a steep slope is 70% (or 1 to 1.66, or 35 degrees), or greater. This means avoiding a disturbance of soils on steep slopes or if disturbing the soil surface is necessary providing a robust surface stabilizing cover (such as geomats, environmental blankets, or other robust slope stabilizing control) to prevent erosion.
  - 2.3.3. Storm water volume and velocity must be controlled to minimize soil erosion and sediment transport by methods such as allowing or not obstructing infiltration and using velocity-control devices to reduce energy in runoff flowing on slopes.
  - 2.3.4. Storm water discharges leaving the site, including both peak flowrates and total storm water volume, must be controlled to minimize channel and stream-bank erosion and scour in the immediate vicinity of discharge points. This may be accomplished using experience, estimates, and good judgement; unless unusual or extraordinary site conditions present a potential for excessive erosion, hillside/impoundment collapse, environmental/safety hazards, or other site problems; for which a professional engineer must be consulted.

2.3.5. Thirty-Foot Vegetative Buffer. If a waterbody is adjacent to, within 30 feet from, or passing through the project boundaries, a 30-foot natural buffer between the waterbody and construction activity must be provided. If a 30-foot natural buffer cannot be provided, a substitute control measure equivalent to the 30-foot buffer must be provided, or the SWPPP must contain an explanation why neither is feasible. If it is not feasible to maintain a 30-foot natural buffer, as much natural buffer as is possible must be preserved and coupled with placement of additional erosion and sediment controls designed, implemented, and maintained to substitute and be equivalent to the 30-foot natural buffer.

The requirement for a natural buffer or substitute controls does not apply to any area outside of the project boundaries, but if a waterbody is within, for example, 20 feet from the project boundary, there must be 10 feet of natural vegetative buffer or substitute controls, or if within 25feet from the project boundary, there must be 5 feet of natural vegetative buffer or substitute controls, and so forth.

- 2.3.5.a. Substitution for a natural buffer should be calculated with models such as USDA's RUSLE2 or WEPP, or by using SEDCAD, SEDIMOT, or other similar models. In lieu of using a model for calculation of a substitution buffer, the permittee shall deploy the following:
  - 2.3.5.a.i. For every full 9 feet of natural buffer that is not provided on slopes up to 10 percent, one row of an effective perimeter control, such as a silt fence, staked straw wattle, proprietary or other filter berm, or other perimeter control, must be properly placed. For example, if only 15 feet of natural buffer can be provided, the permittee will substitute one row of a perimeter control in addition to the 15 feet of natural buffer to make up for the 15 feet of buffer that could not be preserved.
  - 2.3.5.a.ii. In addition to the requirements above for substitutions in place of the 30-foot natural buffer, on slopes between 10 percent and 30 percent, five feet of surface stabilization must be placed down gradient of and between each perimeter control substituted. For slopes steeper than 30 percent, 6 feet of surface stabilization must be placed downgradient of and between each perimeter control substituted, such as mulch, hydromulch, wood chips, bark, compost, erosion mat, etc., but excluding tackifiers.
- 2.4. Good Housekeeping Measures. The permittee must address the following:
  - 2.4.1. Track Out. Track-out pads (see definitions) and or rumble strips (see definitions) must be used to prevent dirt/mud tracked on streets as vehicles leave the site. If traffic onto and off the site is not frequent, a site operator may impose a blanket prohibition of vehicle traffic onto the site, allowing for the occasions to deliver and unload, but afterwards providing sweeping and/or cleaning of tracked out dirt (keep in mind that vehicles leaving a muddy site with no track out protection can track mud for several

- blocks the operator is liable for all track out from the site except for a dirt stain after sweeping see note after 3.2.2.). Dirt or mud tracked out on the street must <u>not</u> be washed or hosed into a storm drain. Tracked out mud or dirt on the street must be swept and/or scraped up as needed every day (see 3.2.2).
- 2.4.2. Curb Ramps: This permit prohibits the intentional placement of dirt and/or mud on paved streets or sidewalks. Curb ramps may be crushed rock, wood or steel ramps, or another material that does not wash away with storm water.
- 2.4.3. Waste and Debris. The site must be cleaned of waste and debris daily (see daily self-inspection 3.2.2). Waste and debris must be contained and secured adequately to prevent scattering from wind until it is removed from the site and disposed of properly.
- 2.4.4. Portable Toilet. Portable toilets must be tied down, staked down, or secured using other measures to prevent turn over, and they must be placed away from a road gutter, storm water inlet, or waterbody.
- 2.4.5. Washing of Concrete, Stucco, and Paint Equipment. A plastic film-lined pit or sealed container must be provided for washout of equipment used for concrete, stucco, and water-based paint. After completion of concrete, stucco, and paint tasks, the permittee must dispose of the waste by drying and sending solids to a landfill. Oil-based paint cleanout must be done in containers, taken off-site, and disposed of separately.
- 2.5. Soil Compaction/Top Soil. Topsoil must be preserved and placed on areas to be landscaped or areas planned for receiving vegetative cover, unless infeasible. Soil compaction must be minimized on areas that will not be used for support of structural elements such as roads, parking areas, structures, etc., unless infeasible.
- 2.6. Stabilization Requirement. Stabilization requirements are as follows:
  - 2.6.1. Stabilization requirements for areas that receive 20 inches of rainfall annually or greater: Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the site or have temporarily ceased on any portion of the site for greater than 14 calendar days. Stabilization can be sodding, planting, application of mulch (wood chips, rock, gravel, bark, compost, cat tracking on straw, hydromulch, etc.), application of geotextiles or erosion blankets, application of a tackifier, seeding (including preparation for germination and growth), a combination of these methods, or other method.
  - 2.6.2. Stabilization or equivalent requirements for arid and semi-arid areas (areas receiving less than 20 inches of rainfall annually): Stabilization for visually flat areas is not required (roughly up to 5 percent, 1 to 20 slope, or 2.3 degrees slope). Areas with slopes up to roughly 20 percent (1 to 5 slope or 11.3 degrees) must have, at minimum, velocity-control devices in every area where storm water collects and flows, spaced close enough across the flow to stop erosion (see also 2.3.3). Soil surface stabilization such as sodding, planting, hydromulch, compost, bark, cat tracking on straw, gravel,

geotextiles, erosion blankets, or other stabilization methods is required on all other sloped areas, increasing the robust nature of stabilizing cover commensurately with increasingly steeper slopes.

- 2.6.3. Permanent Stabilization for Arid areas.
  - 2.6.3.a. In addition to requirements above (see 2.6.2), permanent stabilization requires seeding on all areas that are not covered with permanent stabilization elements or structural elements such as building structure or pavement, or that are engineered or intended for structural purposes like graveled parking or dirt roads.
  - 2.6.3.b. Disturbed areas on projects located outside of populated and developed areas and where no irrigation water is available and where future periodic landscaping maintenance is not planned must be reclaimed with a seed mix of plants indigenous to the area or tolerant to the local climatic conditions that does not include invasive species. Velocity-control devices may be permanent or temporary. If velocity-control devices are intended for temporary use, they must be biodegradable and designed durable enough to withstand extreme weather.
- 2.7. Construction Dewatering. Construction dewatering can occur onsite without an additional UPDES permit if it is infiltrated or contained onsite and is not discharged offsite. Otherwise, construction dewatering discharges must be permitted under the General Permit for Construction Dewatering and Hydrostatic Testing UPDES Permit UTG070000, which can be obtained online through submittal of an NOI at https://secure.utah.gov/waterquality.
- 2.8. <u>Pollution Prevention Measures</u>. The permittee must design, install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants. At a minimum, such measures must address the following:
  - 2.8.1. Vehicle, Wheel, and Other Washing. Minimize the discharge of pollutants from equipment and vehicle washing, wheel-wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge
  - 2.8.2. Exposure to Pollutants. Minimize the exposure of building materials, building products, construction wastes, trash (see 2.4.3), landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste (see 2.4.4), and other materials present on the site to precipitation and to storm water. Minimization of exposure is not required in cases where the exposure to precipitation and to storm water will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of storm water contamination (e.g., final products and materials intended for outdoor use).
  - 2.8.3. Leaks and Spills. Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.
- 2.9. Prohibited Discharges. The following discharges are prohibited:
  - 2.9.1. Wastewater from washout or cutting of concrete (see 2.4.5),

- Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials (see 2.4.5),
- 2.9.3. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance,
- 2.9.4. Soaps or solvents used in vehicle and equipment washing.

## 3. SELF-INSPECTION REQUIREMENTS.

- 3.1. <u>Inspector Qualifications</u>. Weekly inspections (see 3.2.1 below) must be done by a qualified person. A qualified person means a person knowledgeable in the principles and practices of erosion and sediment control that possesses the skills to:
  - 3.1.1. Assess conditions at the construction site that could impact storm water quality,
  - 3.1.2. Assess the effectiveness of a storm water control measure selected to control the quality of storm water discharges from the construction activity.

#### 3.2. Self-Inspections.

- 3.2.1. Weekly Self Inspections: Self-inspections must occur every 7 days. A written report is required (see 3.4).
- 3.2.2. Daily Site Check: Each day of construction activity, the site must be inspected for dirt in the street and trash on the site. Streets must be swept clean (see note below), if soiled. Dirt must be removed off the street (not swept or washed into the storm drain system). Trash on the site must be picked up and disposed of into trash containers (see 2.4.3.) or disposed of off-site (e.g., municipal/private garbage collection service or construction waste landfill). Sub-contractors must be held responsible by the permit holder to perform these duties in accordance with this paragraph for the activities they are contracted to perform. A written report is not required, however the operator will keep a daily log (for the active construction days) listing the initials of the person doing the site check.

Note: Swept clean means sweeping and scraping. Scraping if there is dirt left behind that is crusted and that sweeping will not pick up. This does not mean removing the microscopic layer of dust or the minute amounts of dirt in the cracks and crevices of the surface left behind staining the pavement.

## 3.3. Weekly Self-Inspection Requirements.

- 3.3.1. Areas to check include the following:
  - 3.3.1.a. Areas that have been cleared, graded, or excavated that are not stabilized,
  - 3.3.1.b. All storm water control measures, including perimeter controls,
  - 3.3.1.c. Material piles, waste-disposal containers, sanitary facilities, loose trash, litter, washout areas, portable toilets, track out pad, egress points (if any), etc.,
  - 3.3.1.d. Storm water conveyances through the site, treatment areas, and drainages,
  - 3.3.1.e. All storm water discharge points, street gutters, storm water inlets,
  - 3.3.1.f. Areas that have been temporarily stabilized,
  - 3.3.1.g. Areas that have been permanently stabilized and are completed do not need further inspections.
- 3.3.2. Items to check include the following:
  - 3.3.2.a. All erosion and sediment controls and other pollution prevention controls

have been installed, are operational, and are working as intended to minimize pollutant discharges. Determine if any controls need to be replaced, repaired, or maintained.

- 3.3.2.b. Identify any locations where new or modified storm water controls are necessary.
- 3.3.2.c. Signs of visible erosion and sedimentation (i.e., sediment deposits) that have occurred and are attributable to discharges from your site,
- 3.4. Weekly Inspection Reports. The weekly self-inspection report must be written within 24 hours of inspection and must include:
  - 3.4.1. The initials of the person doing the inspection,
  - 3.4.2. The date of the inspection,
  - 3.4.3. The weather during the inspection,
  - 3.4.4. The problems that were found needing correction (as they pertain to 3.3.1 and 3.3.2 above),
  - 3.4.5. The date when corrective action is completed,
  - 3.4.6. All self-inspection reports must be filed with other permit records regarding the permit. Inspection reports must be available during an oversight inspection.
- 3.5. Corrective Action: Corrective action must be completed before the next weekly inspection.
- 3.6. <u>Inspections by an Oversight Authority</u>. A copy of an oversight inspection report must be filed and be available for review during other oversight inspections.
- 3.7. <u>Record Keeping</u>. Records regarding this permit, the NOI, the NOT, the SWPPP, inspection reports, other related information and documents must be preserved for 3 years after the submission of the NOT (see 5.10).

- 4. STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
  - 4.1. <u>SWPPP Requirement</u>. The permittee must prepare a SWPPP before the NOI for the project is submitted. The SWPPP must address all the applicable requirements in Part 2.
    - 4.1.1. SWPPP Site Design. The design, installation, and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity and duration of precipitation; the nature of resulting storm water runoff; and soil characteristics, including the range of soil particle sizes expected to be present onsite. These may be accomplished using experience, estimates, and good judgement, unless unusual or extraordinary site conditions create hazards for which a professional engineer must be consulted.
    - 4.1.2. Surface Outlets: When discharging from basins and impoundments, utilize outlet structures that withdraw water from the surface, unless infeasible.
  - 4.2. Contents of a SWPPP. A SWPPP must contain the following:
    - 4.2.1. Contacts. The contacts for the site with contact information (name, address, telephone, email) including owner, general contractor, and any other party that significantly affects the implementation of the SWPPP or has responsibilities over the SWPPP.
    - 4.2.2. Sequence and Estimated Dates of Construction Activities. Listed in the sequence with estimated dates including the following:
      - Start and end of excavation activities, initial excavation, backfill excavation and final grading,
      - 4.2.2.b. Any temporary or permanent cessation of earth-disturbing activities,
      - 4.2.2.c. Start and end of landscaping if this is done as part of the construction activity before the home is sold.
    - 4.2.3. Site Map or Chart. A site map may be hand drawn (as close to scale as possible) or may be a copy of an architect drawing including the following information:
      - 4.2.3.a. Boundaries of the property,
      - 4.2.3.b. Boundaries of soil surface disturbances, including any outside the boundaries of the property,
      - 4.2.3.c. Slopes, including areas of steep slopes,
      - 4.2.3.d. Locations of stockpiles of soils, storage of construction materials, portable toilets, trash containers, concrete washout pits or containers, egress points, and track out pads,
      - 4.2.3.e. Waterbodies, wetlands, and natural buffer areas,
      - 4.2.3.f. Locations and types of BMPs or storm water control measures for the control and/or treatment of storm water flowing onto, through, and/or offsite,
      - 4.2.3.g. Locations of storm water inlets, storm water discharge points going off site,

- 4.2.3.h. Areas that will be temporarily or permanently stabilized during the construction period.
- 4.2.4. *Thirty-Foot Natural Buffer*. The SWPPP must show the dimensions and placement of the 30-foot natural buffer, the substitute control measures, or a detailed explanation of why a natural buffer or substitute control measure could not be applied.
- 4.2.5. *Pollutants*. A list of construction site pollutants including the pollutant-generating activity, and an inventory of pollutants for each pollutant generating activity (e.g., paints, solvents, form oil, fuels, and other chemicals; applications, materials, and liquids that if released could pollute storm water).
- 4.2.6. Waste Management. Waste management procedures including soil removal, clearing debris removal, demolition removal, trash disposal, construction-waste disposal, and sanitary-waste disposal.
- 4.2.7. Training. The permittee will ensure that each subcontractor or utility provider is aware of their responsibilities for keeping soil on the site and preventing pollution. The permittee must keep in mind that they are responsible for and may be issued fines for poor performances by their subcontractors and utility providers. Consideration will be given if the permittee can document when and what instructions were given to the subordinate party.
- 4.2.8. NOI and Permit. The SWPPP must contain a copy of this permit and a copy of the NOI for the project.
- 4.2.9. SWPPP Signature and Certification. The SWPPP must be signed and certified by both the Owner and the General Contractor in accordance with 5.16.1.a.
- 4.2.10. MS4 Approval of Project. For areas where projects are within a regulated MS4's jurisdiction (see definitions in Part 6; the list of regulated MS4's is found on http://www.deq.utah.gov/Permits/water/updes/stormwatermun.htm), the SWPPP must contain the signature and date of the MS4 reviewer who has approved the proposed project for construction (see 1.7.).
- 4.2.11. Availability of the SWPPP. The SWPPP must be available at the construction site covered under this permit during onsite construction activity, unless the SWPPP is available online. If the SWPPP is available online there must be a sign (see 1.10) that describes where the SWPPP can be accessed online. The SWPPP is a plan for the site, and workers must be able to refer to the SWPPP and update it as needed to manage the site (including SWPPPs found on the internet). The SWPPP is not required to be on the site when construction workers leave for the day or when there is no activity occurring on the site, but at all times there must be posted contact information where the SWPPP can be obtained (see Part 1.10). The SWPPP must be made available within 24 hours to DWQ representatives or other oversight inspectors, e.g., U.S. Environmental Protection Agency [EPA] or a local MS4, on request, or immediately during an inspection on the site when there are workers and activity at the site.

- 4.2.12. Required Modifications of the SWPPP. The SWPPP must be modified as follows:
  - 4.2.12.a. During inspections when it is determined from observations of site conditions that storm water control measures are:
    - 4.2.12.a.i. Not adequate or not shown in the SWPPP, or
    - 4.2.12.a.ii. Changes in the SWPPP are necessary for compliance with this permit.
  - 4.2.12.b. When an oversight authority determines that the SWPPP is not adequate based on missing a required SWPPP or permit item, not addressing pollutants properly, not being up to date and reflecting current site conditions, or not being clear, thorough, and understandable.
- 4.2.13. SWPPP Modifications Deadline. Modifications to the SWPPP from inspections or oversight authority direction must occur before or during the next weekly inspection.

## 5. STANDARD PERMIT CONDITIONS.

#### 5.1. Duty to Comply.

- 5.1.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Utah Water Quality Act (the Act) and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- 5.1.2. Penalties for Violations of Permit Conditions
  - 5.1.2.a. Violations. The Act provides that any person who violates the Act, Utah wastewater or storm water rules, or conditions of a permit issued under the Act, is subject to a fine of \$10,000 per day.
  - 5.1.2.b. Willful or Gross Negligence. The Act provides that any person who discharges a pollutant to waters of the State as a result of criminal negligence or who intentionally discharges is criminally liable and is subject to imprisonment and a fine of up to \$50,000 per day (Utah Code Annotated 19-5-115).
  - 5.1.2.c. False Statements. The Act provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Act, the rules, or this permit, or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act shall upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for 6 months, or by both (Utah Code Annotated 19-5-115(4)).
- 5.2. <u>Duty to Reapply</u>. If a permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit except as provided in 1.6 and 1.7 of this permit.
- 5.3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- 5.4. <u>Duty to Mitigate</u>. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.
- 5.5. <u>Duty to Provide Information</u>. The permittee shall furnish to the Director or an authorized representative, within a reasonable time, any information that is requested to determine compliance with this permit. The permittee must also furnish to the Director or an authorized representative copies of records to be kept by this permit.
- 5.6. Other Information. When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the NOI or in any other report to the Director, he or she shall promptly submit such facts or information.

- 5.7. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under the Act.
- 5.8. <u>Property Rights</u>. The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.
- 5.9. Severability. The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.
- 5.10. <u>Record Retention</u>. The permittee shall retain copies of SWPPPs and all reports required by this permit, and records of all data used to complete the NOI to be covered by this permit, for a period of at least three years from the date that the permit for the site is terminated (see 3.7). This period may be extended by request of the Director at any time.
- 5.11. Addresses. All written correspondence under this permit shall be directed to the DWQ at the following address:

Department of Environmental Quality Division of Water Quality 195 North 1950 West P.O. Box 144870 Salt Lake City, Utah 84114-4870

- 5.12. <u>State Laws</u>. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Utah Code Annotated 19-5-117.
  - 5.12.1. No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.
- 5.13. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control and related appurtenances which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the requirements of SWPPPs. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the condition of the permit.
- 5.14. <u>Inspection and Entry</u>. The permittee shall allow, upon presentation of credentials, the Director or an authorized representative to:
  - 5.14.1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;

- 5.14.2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit.
- 5.14.3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and
- 5.14.4. Sample or monitor at reasonable times for the purposes of assuring permit compliance or as otherwise authorized by law, any substances or parameters at any location.

### 5.15. Reopener Clause.

- 5.15.1. Reopener Due to Water Quality Impacts. If there is evidence indicating that the storm water discharges authorized by this permit cause, have the reasonable potential to cause, or contribute to a violation of a water-quality standard, the discharger may be required to obtain an individual permit or an alternative general permit in accordance with 1.7.4 of this permit or the permit may be modified to include different limitations and/or requirements.
- 5.15.2. Reopener Guidelines. Permit modification or revocation will be conducted according to Utah Administrative Code R317-8-5.6 and UAC R317-8-6.2.
- 5.15.3. Permit Actions. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification revocation and reissuance, termination, a modification of planned changes or anticipated noncompliance does not stay any permit condition.

#### 5.16. Signatory Requirements.

- 5.16.1. All NOIs, SWPPPs, reports, certifications or information submitted to the Director, or that this permit requires be maintained by the permittee, shall be signed as follows:
  - 5.16.1.a. All NOIs and SWPPPs shall be signed by both the owner or lessee of the project/property and the general contractor.
  - 5.16.1.b. All reports required by the permit and other information requested by the Director or by an authorized representative of the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
    - 5.16.1.b.i. The authorization is made in writing by a person described above and submitted to the Director; and
    - 5.16.1.b.ii. The authorization specifies either an individual or a position having such as the position of manager, operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may therefore be either a named individual or any individual occupying a named position.
  - 5.16.1.c. *Certification*. Any person signing documents under 5.16 shall make the following certification:

#### 6. DEFINITIONS

Arid Areas: Areas with an average annual rainfall of 10 inches or less.

Common Plan of Development (or sale): A plan to subdivide a parcel of land into separate parts for separate sale. This can be for a residential, commercial, or industrial development. The plan originates as a single parcel that is separated into parts. This usually goes through an approval process by a local governmental unit, but in some cases, it may not require that process. The original plan is considered the "common plan of development or sale" whether phased or completed in steps.

## Additional information related to Common Plan of Development for Permit Purposes:

For UPDES storm water permit purposes, a common plan must have been initiated after October, 1992. A common plan of development or sale remains so until each lot or section of the development has fulfilled its planned purposes (e.g. in a residential development as homes are completed, stabilized, and sold or occupied). As lots or separated sections of the development are completed, the lot or section is stabilized, and the plan purposes are fulfilled for that area, lot, or section, it is no longer part of the common plan of development or sale (e.g. if a home is sold in a development and the owner decides to add a garage somewhere on the lot, that garage project is not part of the common plan of development or sale.

In this process a common plan of development or sale may become reduced in size and/or separated by completed areas which are no longer part of the common plan of development or sale, but all unfinished lots remain part of the same common plan development or sale until they are completed, stabilized, and fulfilled according to the purposes of the plan.

Construction Activity: Earth-disturbing activities, such as the clearing, grading, and excavation of land.

Construction Waste: Discarded material such as packaging materials, scrap construction materials, masonry products, timber, steel, pipe, and electrical cuttings, plastics, and Styrofoam.

Corrective Action: For the purposes of the permit, any action taken to 1) repair, modify, or replace any storm water control used at the site; 2) clean up and dispose of spills, releases, or other deposits found on the site; and 3) remedy a permit violation.

Dewatering: The act of draining rainwater and/or groundwater from building foundations, vaults, and trenches (Note: if dewatering is occurring on a construction site and it causes a discharge to waters of the State, it must be permitted separately under the General Permit for Construction Dewatering and Hydrostatic Testing, UPDES Permit UTG070000).

Director: The director of the Division of Water Quality.

Discharge Point: For the purposes of this permit, the location where collected and concentrated storm water flows are discharged from the construction site.

Final Stabilization: All disturbed areas must be covered by permanent structures such as pavement, concrete slab, building, etc., or for areas not covered by permanent structures but that are receiving 20 inches or more of average annual precipitation, vegetation has been established with a uniform (e.g.,

General Storm Water Permit for Construction Activity Connected with Single Lot Housing Projects UPDES Permit No. UTRH00000

evenly distributed, without large bare areas) perennial vegetative cover equivalent to 70 percent of the natural background vegetative cover. In the case of areas that are not covered by permanent structures, but that are receiving less than 20 inches of average annual precipitation (arid areas, 0-10 inches; semi-arid areas, 10-20 inches), final stabilization is equivalent to the requirements of 2.6.3 of this permit, including the provisions for permanent stabilization.

*Impervious Surface*: For the purpose of this permit, any land surface with a low or no capacity for water infiltration including, but not limited to, pavement, sidewalks, parking areas, driveways, or rooftops.

Indian Country: Defined at 40 CFR §122.2 as follows:

- 1. All land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and, including rights-of-way running through the reservation;
- 2. All dependent Indian communities within the borders of the United States whether within the originally or subsequently acquired territory thereof; and
- 3. All Indian allotments, the Indian titles to which have not been extinguished, including rights-of-ways running through the same.

Infeasible: Infeasible means not technologically possible or not economically practicable and achievable in light of best industry practices. DWQ notes that it is not intentional for permit storm water control efforts required in the permit to conflict with State water rights law. In the case of conflict, State water rights law supersedes.

*Install or Installation*: When used in connection with storm water controls, to connect or set in position storm water controls to make them operational.

Municipal Separate Storm Sewer System or MS4: A storm-sewer system owned and operated by a state, city, town, county, district, association, or other public body created by or pursuant to State law having jurisdiction over disposal of storm water that discharges to waters of the State (e.g., Sandy City owns and operates the MS4 within the jurisdiction of Sandy City, or essentially Sandy City is the MS4).

Natural Buffer: For the purposes of this permit, an area of undisturbed natural cover surrounding surface waters within which construction activities are restricted. Natural cover includes the vegetation, exposed rock, or barren ground that exists before earth-disturbing activities begin.

Oversight Authority: Oversight authorities for storm water permits are agents from the EPA, DWQ or the Municipality of jurisdiction, when they are addressing compliance of storm water permits.

Owner: For the purpose of this permit an owner has ownership of a property on which construction activity is taking place, but it also includes ownership of a project for which construction activity is occurring on property that is leased. An owner is the party that has ultimate control over construction plans and specifications, including the ability at the highest level to make modifications to those plans and specifications. "Owner" in this context is the party that has ultimate control over the destiny of a project.

Permittee: The owner and/or the general contractor (those that signed on the NOI), for the project.

General Storm Water Permit for Construction Activity Connected with Single Lot Housing Projects UPDES Permit No. UTRH00000

Pollutant-Generating Activities: At construction sites, for the purposes of this permit, those activities that lead to or could lead to the generation of pollutants, either as a result of earth-disturbance or a related support activity. Some of the types of pollutants that are typically found at construction sites are as follows:

- Sediment
- Nutrients
- · Heavy metals
- · Pesticides and herbicides
- · Oil and grease
- · Bacteria and viruses
- · Trash, debris, and solids
- Treatment polymers
- · Any other toxic chemicals

Pollution Prevention Measures: Storm water controls designed to reduce or eliminate the addition of pollutants to construction site discharges through analysis of pollutant sources, implementation of proper handling/disposal practices, employee education, and other actions.

Project Site: A project site is not necessarily contained within the property boundaries designated for the final construction objective, or property owned by the owner of the project. The project site includes all areas affected by the construction process where disturbances, storage, or other construction activity occurs. If an area outside of property boundaries is used for the construction process, DWQ assumes the permittee has the right to access and use that area and the permittee must also meet permit requirements in that area.

Receiving Water: A "Water(s) of the State" is as defined in UAC R317-1-1, into which the regulated storm water discharges (see waters of the State listed below).

Rumble Strip: A rigid ramp/track (often made of steel) that vehicles drive over that causes tires to flex and shake for the removal of dirt.

Semi-Arid Areas: Areas with an average annual rainfall of between 10 and 20 inches.

Stabilization: The use of vegetative and/or non-vegetative cover to prevent erosion and sediment loss in areas of disturbed soil exposed from the construction process.

Storm water: Means storm water runoff, snowmelt runoff, and surface runoff and drainage.

Storm Water Control Measures: Refers to any storm water control, BMP, or other method used to prevent or reduce the discharge of pollutants to waters of the state.

General Storm Water Permit for Construction Activity Connected with Single Lot Housing Projects UPDES Permit No. UTRH00000

Storm Water Inlet: An entrance or opening to a storm water conveyance system, generally placed below grade so as to receive storm water drainage from the surrounding area.

Storm Event: A precipitation event that results in a measurable amount of precipitation.

Track Out Pad: A track out pad is a pad normally made up of 4 to 6 inches of up to 6 inch cobble rocks or gravel of various size (the size is sometimes specified by a local MS4). Sometimes it is underlain with a fabric to keep dirt and mud separated from rock or gravel. It is wide enough to underlay the tires of any/all traffic leaving a construction site as vehicles exit the site. Its function is to flex and shake the tires to dislodge mud and dirt from the tires of vehicles leaving the construction site. Track out pads must be stirred or worked periodically so that mud or dirt collected is moved to the bottom and the rock/gravel on the pad is clean and effective dislodging more mud/dirt.

Waters of the State: All streams, lakes, ponds, marshes, watercourses, waterways, wells, springs, irrigation systems, drainage systems, and all other bodies or accumulations of water, surface and underground, natural or artificial, public or private, that are contained within, flow through, or border upon this state or any portion thereof, except that bodies of water confined to and retained within the limits of private property, and that do not develop into or constitute a nuisance, or a public health hazard, or a menace to fish and wildlife, shall not be considered to be "Waters of the State" under this definition (see Utah Code Annotated, 19-5-102(23)(a) &(b), and UAC R317-1-1).

APPENDIX D: Acknowledgement Letter from Huntsville City, Utah

#### STATE OF UTAH, DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER QUALITY 195 North 1950 West, P.O. Box 144870, Salt Lake City, Utah 84114-4870 (801) 536-4300 Notice of Intent (NOI) for Storm Water Discharges Associated with Construction Activity Under the UPDES General Permit NOI No. UTR374199 SEE REVERSE FOR INSTRUCTIONS Submission of this Notice of Intent constitutes notice that the party(s) identified in Section I of this form intends to be authorized by UPDES issued for storm water discharges associated with construction activity in the State of Utah. Becoming a General Permit No. UTR374199 permittee obligates such discharger to comply with the terms and conditions of the permit. ALL NECESSARY INFORMATION MUST BE PROVIDED ON THIS FORM. Is this NOI seeking continuation for previously expired permit coverage at the same site? YO NO If yes, what is the number of the previous permit coverage? Permit No. Permit Start Date 03/10/2016 Permit Expiration Date: 03/10/2017 I. OPERATOR INFORMATION Name (Owner): K.Roberts Construction Inc. Phone: 801-791-1689 Address: 57 s 2625 e Status of Owner/Operator: PRIVATE City: LAYTON State: UT Zip: 84040 Contact Person: Kyle Roberts Phone: 801-701-1689 Name (Operator): K. Roberts Construction Inc. Phone: 801-791-1689 Address: 57 s. 2625 e. Status of Owner/Operator: PRIVATE City: LAYTON State: UT Zip: 84040 Contact Person: Kyle Roberts Phone: 801-791-1689 II. FACILITY SITE / LOCATION INFORMATION Is the facility located in Indian Country? Name: Slater residence Y NO Project No. (if any): #10 Hawkins Creek Address: 1688 High Plains road County: WEBER City: HUNTSVILLE State: UT Zip: 84317 Latitude: 41.241667 Longitude: -111.789402 Method (check one): ☐ USGS Topo Map, Scale ☐ EPA Web site ☑ GPS ☐ Other III. SITE INFORMATION Municipal Separate Storm Sewer System (MS4) Operator Name: Hawkins Creek HOA Receiving Water Body: Pineview resevoir known this is known this is a guess Estimate of distance to the nearest water body? 3miles miles ft. miles. Is the receiving water an impaired or high quality water body (see http://wq.deq.utah.gov/)? Yes No O List the Number of any other UPDES permits at the site:

IV.

1. M Residential

7. 

Contouring, Landscaping

TYPE OF CONSTRUCTION (Check all that apply)

2. 

Commercial

8. 

Pipeline

3. 

Industrial

4. 
Road

9. 

Other (Please list)

5. 
Bridge

6. Utility

V. BEST MANAGEMENT PRACTICES
Identify proposed Best Management Practices (BMPs) to reduce pollutants in storm water discharges (Check all that apply):
1. M Silt Fence/Straw Wattle/Perimeter Controls 2.  Sediment Pond 3.  Seeding/Preservation of Vegetation
4. ☐ Mulching/Geotextiles 5. ☐ Check Dams 6. ☑ Structural Controls (Berms, Ditches, etc.)
7.  Other (Please list)
VI. GOOD HOUSEKEEPING PRACTICES
Identify proposed Good Housekeeping Practices to reduce pollutants in storm water discharges (Check all that apply even if they apply
only during a part of the construction time):
1. 🖬 Sanitary/Portable Toilet 2. 🗺 Washout Areas 3. 🖼 Construction Chemicals/Building Supplies Storage Area
4. 圖 Garbage/Waste Disposal 5. 🗆 Non-Storm Water 6. 题 Track Out Controls 7. 冠 Spill Control Measures
VII. ADDITIONAL
Estimated Area to be Disturbed (in Acres): 1.00 Total Area of Plot (in Acres): 1.70
A storm water pollution prevention plan has been prepared for this site and is to the best of my knowledge in Compliance with State and/or Local Sediment and Erosion Plans and Requirements. Y N N (A pollution prevention plan is required to be on hand before submittal of the NOL)
Enter the best e-mail address to contact the permittee: krobe10184@aol.com
VIII.CERTIFICATION: I certify under penalty of law that I have read and understand the Part 1 eligibility requirements for coverage under the general permit for storm water discharges from construction activities. I further certify that to the best of my knowledge, all discharges and BMPs that have been scheduled and detailed in a storm water pollution prevention plan will satisfy requirements of this permit. I understand that continued coverage under this storm water general permit is contingent upon maintaining eligibility as provided for in Part 1.
I also certify under penalty of law that this document and all attachments were prepared under the direction or supervision of those who have placed their signature(s) below, 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.
Print Name (Owner):  Date:
K.Roberts Construction Inc.
Signature: 3 PS 4/3/2016
Print Name (Operator): Date:
Signature:
Amount of Permit Fee Enclosed: \$ 150.00

# **APPENDIX E: Inspection Reports**

INSPECTION REPORT				SITE NAME: John Doe Project
INSPECTION PERIOD: 2012.03.01-2012.03.07	2012.03.01-20	012.03.07		LAST RAIN EVENT: 2012.03.01
INSPECTOR: jd				CURRENT WEATHER: clear
BMP	DATE	OK/NOT OK?	BMP CONDITION	CORRECTIVE ACTION REQUIREMENTS
Are all pollution sources	3/7/2012 OK	OK.	na	All pollution sources are controlled. No new BMPs are necessary.
problems exist?				
4.7.2 LOT Cutdown	3/7/2012 OK	OK	in place	
4.7.1 Silt Fending	3/7/2012 mot OK	not OK	Silt fence at south	Informed xyz excating by phone this must be repaired including the sediment
			boundary was buried by	washed onto the adjacent lot, no later than two days or before the next storm
			excavator.	event which ever comes first. Sediment had washed onto the south property
4.9.1 Drop Inlet Bags	3/7/2012 OK	OX.	Only about 4" of sediment	
4.9.2 Gutter Dam	3/7/2017 ОК	OX.	Gutter dams are tight to	Gutter dams were clean March 3rd in anticipation of the forecast storm on March
			the curb and free of	4th. The dams were also cleaned on the 5th following the storm.
4 10.1 Pust Controls	3/7/2017 OK	2	Water and hope are ready	Water and hope are ready. Wind did bloom the marking of the total budgets and the same of
			No wind today.	excavator. The excavator began watering as he was loading
5.1.2 Gravel Parking	3/7/2012 na	na	not scheduled per SWPPP	The grave, pad area is covered with excavation from the footing and foundation
5.1.3 Tpost and Tape	3/7/2012 OK	Š	fence post and tape in	Excavation ceased during the March 4th storm. Excavator needed to access at a
			place.	point not shown on SWPPP. Ground was dry and barrier tape was but back.
5.1.4 Sq Nose Shovel and Broom	3/7/2012 OK		Minor tracking today	Minor tracking occurred on March 6th. The excavator's laborer cleaned the road
				with a hand broom and shovel in the middle of the day and at the end
5.2.1 Dumpster	3/7/2012 na	na	not scheduled per SWPPP	Subsidiave been told to carry out any lunch trash,
5.2.3 Portable Toilet	3/7/2012 OK	웃	In piace.	
5.2.5 Concrete Washout	3/7/2012 OK	CK.	In place. About 25% full.	
5.3.1 Material Storage	3/7/2012 OK		No materials being stored	
5.3.3 Construction Staging	3/7/2012		not scheduled per SWPPP	
5.3.4 Spoil Waste Limits	3/7/2012 not OK	not OK	see 2.5	see 2.5
5.5 Spil Kit	3/7/2012 OK		In place	
5.8.1 Frontage Swafe	L. 1554-51 F.C.	The second secon		

significant penalties for submitting taise information, including the possibility of fine and imprisonment for knowing violations. 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 I certify under penalty of law that this document and all attachments were prebared 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

Signiture: 24.

Date: 2012-03-07

Stormwater Pollution Prevention Plan Template (SWPPP) Common Plan Permit

APPENDIX F: Corrective Action Log

Date & Time of Inspection/Random Notice of Problem	Inspection or Randomly Noticed?	BMP # and Name	Description of BMP Deficiency (or reference the inspection report)	Initial	Correction Date (MM/DD/YY)	How the BMP was Corrected	SWPPP Changed (Y/N)

Stormwater Pollution Prevention Plan Template (SWPPP) Common Plan Permit

APPENDIX G: Amendment Log

		Amendment Log	œ
Amendment No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]

APPENDIX H: Certifications, Agreements, and Delegation of Authority

APPENDIX I: Grading and Stabilization Activities Log

Project Name: Slater residence

SWPPP Contact: Kyle Roberts 801-791-1689

Activity Initiated (				
Description of Grading Activity				
Date Grading Activity Ceased (Indicate Temporary or Permanent)				
Date When Stabilization Measures are Initiated				
Description of Stabilization Measure and Location				

Stormwater Pollution Prevention Plan Template (SWPPP)

Common Plan Permit

**APPENDIX J: Construction Plans** 

SINGLE FAMILY Home SlAten RESIDEDLE

APPENDIX K: Additional Information (i.e. permits such as local permits, dewatering, stream alteration, wetland, and out of date SWPPP documents, etc.)

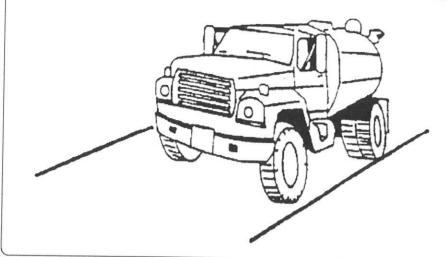
Stormwater Pollution Prevention Plan Template (SWPPP)

Common Plan Permit

APPENDIX L: BMP Specifications and Details (label BMPs to match the sections identified in this document.)
DC
PEV
PT

SCE SCU

SS



Dust control measures are used to stabilize soil from wind erosion, and reduce dust by construction activities.

#### **APPLICATION:**

Dust control is useful in any process area, loading and unloading area, material handling areas, and transfer areas where dust is generated. Street sweeping is limited to areas that are paved.

#### INSTALLATION/APPLICATION CRITERIA:

- Mechanical dust collection systems are designed according to the size of dust particles and the amount of air to be processed. Manufacturers' recommendations should be followed for installation (as well as the design of the equipment).
- Two kinds of street weepers are common: brush and vacuum. Vacuum sweepers are more efficient and work best when the area is dry.
- Mechanical equipment should be operated according to the manufacturers' recommendations and should be inspected regularly.

#### LIMITATIONS:

- Is generally more expensive than manual systems.
- May be impossible to maintain by plant personnel (the more elaborate equipment).
- Is labor and equipment intensive and may not be effective for all pollutants (street sweepers).

#### **MAINTENANCE:**

- If water sprayers are used, dust-contaminated waters should be collected
- for treatment. Areas will probably need to be resprayed to keep dust from
- spreading.

#### **OBJECTIVES**

- X Housekeeping Practices
  - Contain Waste
- Minimize Disturbed Areas x
- x Stabilize Disturbed Areas
- Protect Slopes/Channels Control Site Perimeter
- Control Internal Erosion



# WEBER COUN

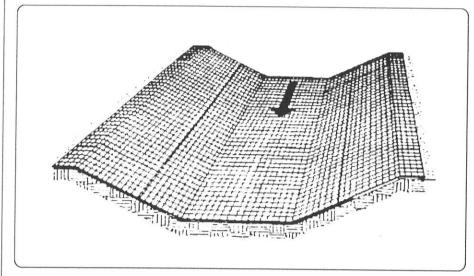
#### **ENGINEERING DEPARTMENT**

2380 Washington Blvd., Suite 240 Ogden, UT 84401 (801) 399-8374

#### **TARGETED POLLUTANTS**

- Sediment
- Nutrients
- Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Waste
- High Impact
- Medium Impact
- Low or Unknown Impact

- x Capital Costs
- O&M Costs
- x Maintenance
- X Training
- High
- x Medium
- Low



Erosion control blankets are used in place of mulch on areas of high velocity runoff and/or steep grade, to aid in controlling erosion on critical areas by protecting young vegetation.

#### **APPLICATIONS:**

- Where vegetation is likely to grow too slowly to provide adequate cover.
- In areas subject to high winds where mulch would not be effective.

#### **INSTALLATION/APPLICATION CRITERIA:**

- Install erosion control blankets parallel to the direction of the slope.
- In ditches, apply in direction of the flow.
- Place erosion control blankets loosely on soil do not stretch.
- Ends of blankets should be buried no less than six inches deep.
- Staple the edges of the blanket at least every three feet.

#### LIMITATIONS:

Not recommended in areas which are still under construction.

#### MAINTENANCE:

- Check for erosion and undermining periodically, particularly after rainstorms.
- Repair dislocations or failures immediately.
- If washouts occur, reinstall after repairing slope damage.
- Monitor until permanently stabilized.

#### **OBJECTIVES**

- Housekeeping Practices
- Contain Waste
- Minimize Disturbed Areas П
- × Stabilize Disturbed Areas
- x Protect Slopes/Channels Control Site Perimeter
- П
  - Control Internal Erosion



# WEBER COUNT

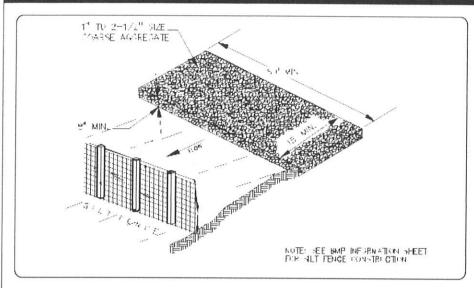
#### **ENGINEERING DEPARTMENT**

2380 Washington Blvd., Suite 240 Ogden, UT 84401 (801) 399-8374

#### TARGETED POLLUTANTS

- Sediment
- **Nutrients** X
- Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Waste
- High Impact
- x Medium Impact
- Low or Unknown Impact

- Capital Costs
- **O&M Costs**
- x Maintenance
  - Training
- High
- × Medium
- Low



A stabilized pad of crushed stone for general washing of equipment and construction vehicles.

#### APPLICATION:

At any site where regular washing of vehicles and equipment will occur. May also be used as a filling point for water trucks limiting erosion caused by overflow or spillage of water.

#### **INSTALLATION/APPLICATION CRITERIA:**

- ▶ Clear and grub area and grade to provide maximum slope of 1%
- Compact subgrade and place filter fabric if desired (recommended for wash areas to remain in use for more than 3 months).
- Place coarse aggregate, 1 to 2-1/2 inches in size, to a minimum depth of 8-inches.
- Install silt fence downgradient (see silt fence BMP information sheet).

#### LIMITATIONS:

Cannot be utilized for washing equipment or vehicles that may cause contamination of runoff such as fertilizer equipment or concrete equipment. Solely used to control sediment in wash water.

#### **MAINTENANCE:**

- Inspect daily for loss of gravel or sediment buildup.
- Inspect adjacent area for sediment deposit and install additional controls as necessary.
- Repair area and replace gravel as required to maintain control in good working condition.
- Expand stabilized area as required to accommodate activities.
- Maintain silt fence as outlined in specific silt fence BMP information sheet.

#### **OBJECTIVES**

- Housekeeping Practices
- ☐ Contain Waste
- ☐ Minimize Disturbed Areas
- ☐ Stabilize Disturbed Areas
  ☐ Protect Slopes/Channels
- □ Protect Slopes/Channels□ Control Site Perimeter
- ☑ Control Internal Erosion



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#### TARGETED POLLUTANTS

- Sediment
- □ Nutrients
- Toxic Materials
- Oil & Grease
- ☐ Floatable Materials
- ☐ Other Waste
- High Impact
- Medium Impact
- □ Low or Unknown Impact

- Capital Costs
- □ O&M Costs
- Maintenance
  - 1 Training
- High
- Medium
- □ Low



## HAZARDOUS MATERIAL

#### **DESCRIPTION:**

Prevent or reduce the discharge of pollutants to stormwater from hazardous waste through proper material use, waste disposal, and training of employees and subcontractors.

#### **APPLICATION:**

Many of the chemicals used on-site can be hazardous materials which become hazardous waste upon disposal. These wastes may include:

 Paints and solvents; petroleum products such as oils; fuels and greases; herbicides and pesticides; acids for cleaning masonry, and concrete curing compounds.

In addition, sites with existing structures may contain wastes which must be disposed of in accordance with federal, state and local regulations, including:

 Sandblasting grit mixed with lead, cadmium or chromium based paints, asbestos, and PCBs.

#### **INSTALLATION/APPLICATION CRITERIA:**

The following steps will help reduce stormwater pollution from hazardous wastes:

- Use the entire product before disposing of the container.
- Do not remove the original product label; it contains important safety and disposal information.
- ▶ Do not over-apply herbicides and pesticides. Prepare only the amount needed. Follow the recommended usage instructions. Over-application is expensive and environmentally harmful. Apply surface dressings in several smaller applications, as opposed to one large application, to allow time for infiltration and to avoid excess material being carried off-site by runoff. Do not apply these chemicals just before it rains. People applying pesticides must be certified in accordance with federal and state regulations.

#### LIMITATIONS:

 Hazardous waste that cannot be reused or recycled must be disposed of by a licensed hazardous waste collector.

#### MAINTENANCE:

- Inspect hazardous waste receptacles and areas regularly.
- Arrange for regular hazardous waste collection.

#### **OBJECTIVES**

- New Development
- Residential
- Commercial Activities
- Industrial Activities
- Municipal Facilities
- ☑ Illegal Discharges



# **WEBER COUNTY**

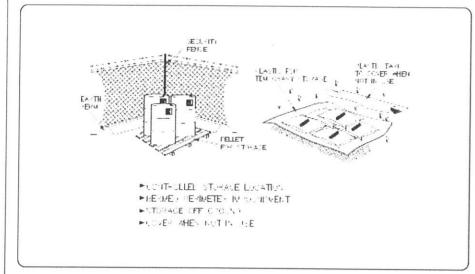
#### ENGINEERING DEPARTMENT

2380 Washington Blvd., Suite 240 Ogden, UT 84401 (801) 399-8374

#### **TARGETED POLLUTANTS**

- 1 Sediment
- □ Nutrients
- ☐ Heavy Metals
- Toxic Materials
- ☐ Oxygen Demanding Substance
- ☑ Oil & Grease
- ☐ Floatable Materials
- □ Bacteria & Viruses
- High Impact
- Medium Impact
- ☐ Low or Unknown Impact

- ☐ Capital Costs
- ☑ O&M Costs
- ☑ Regulatory
- I Training
- Staffing
- Administrative
- High
- Medium
- □ Low



Controlled storage of on-site materials.

#### **APPLICATION:**

- Storage of hazardous, toxic, and all chemical substances.
- Any construction site with outside storage of materials.

#### **INSTALLATION/APPLICATION CRITERIA:**

- Designate a secured area with limited access as the storage location. Ensure no waterways or drainage paths are nearby.
- Construct compacted earthen berm (See Earth Berm Barrier Information Sheet), or similar perimeter containment around storage location for impoundment in the case of spills.
- Ensure all on-site personnel utilize designated storage area. Do not store excessive amounts of material that will not be utilized on site.
- For active use of materials away from the storage area ensure materials are not set directly on the ground and are covered when not in use. Protect storm drainage during use.

#### LIMITATIONS:

- Does not prevent contamination due to mishandling of products.
- Spill Prevention and Response Plan still required.
- Only effective if materials are actively stored in controlled location.

#### MAINTENANCE:

- Inspect daily and repair any damage to perimeter impoundment or security fencing.
- Check materials are being correctly stored (i.e. standing upright, in labeled containers, tightly capped) and that no materials are being stored away from the designated location.

#### **OBJECTIVES**

- Housekeeping Practices
- Contain Waste
- ☐ Minimize Disturbed Areas
- ☐ Stabilize Disturbed Areas
- ☐ Protect Slopes/Channels
- ☐ Control Site Perimeter☐ Control Internal Erosion



# **WEBER COUNTY**

#### **ENGINEERING DEPARTMENT**

2380 Washington Blvd., Suite 240 Ogden, UT 84401 (801) 399-8374

#### **TARGETED POLLUTANTS**

- ☐ Sediment
- □ Nutrients
- Toxic Materials
- ☐ Oil & Grease
- ☐ Floatable Materials
- Other Construction Waste
- High Impact
- Medium Impact
- ☐ Low or Unknown Impact

- Capital Costs
- ☑ O&M Costs
- Maintenance
- Training
- High
- Medium
- □ Low



Prevent or reduce the discharge of pollutants to storm water from material use by using alternative products, minimizing hazardous material use on-site, and training employees and subcontractors.

#### **APPLICATION:**

The following materials are commonly used on construction sites:

- ▶ Pesticides and herbicides, fertilizers, detergents, plaster and other products, petroleum products such as fuel, oil, and grease.
- Other hazardous chemicals such as acids, lime, glues, paints, solvents, and curing compounds.

#### INSTALLATION/APPLICATION CRITERIA:

- ▶ Use less hazardous, alternative materials as much as possible.
- Minimize use of hazardous materials on-site.
- Use only materials where and when needed to complete the construction activity.
- Follow manufacturer's instructions regarding uses, protective equipment, ventilation, flammability, and mixing of chemicals.
- Personnel who use pesticides should be trained in their use.
- Do not over apply fertilizers, herbicides, and pesticides. Prepare only the amount needed.
- Unless on steep slopes, till fertilizers in to the soil rather than hydroseeding.
- Do not apply these chemicals just before it rains.

#### LIMITATIONS:

 Alternative materials may not be available, suitable, or effective in every case.

#### MAINTENANCE:

Maintenance of this best management practice is minimal.

#### **OBJECTIVES**

- Housekeeping Practices
- ☐ Contain Waste
- ☐ Minimize Disturbed Areas
- ☐ Stabilize Disturbed Areas
- □ Protect Slopes/Channels□ Control Site Perimeter
- ☐ Control Internal Erosion



## **WEBER COUNTY**

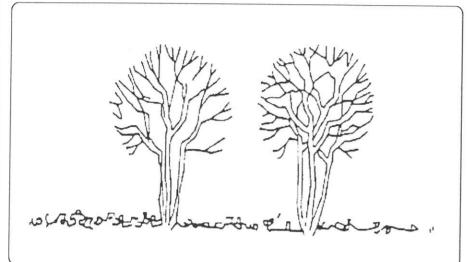
#### ENGINEERING DEPARTMENT

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#### TARGETED POLLUTANTS

- ☐ Sediment
- □ Nutrients
- Toxic Materials
- ☐ Oil & Grease
- ☐ Floatable Materials
- Other Construction Waste
- High Impact
- Medium Impact
- Low or Unknown Impact

- ☐ Capital Costs
- ☐ O&M Costs
- □ Maintenance
- ▼ Training
- High
- ☑ Medium
- □ Low



Carefully planned preservation of existing vegetation minimizes the potential of removing or injuring existing trees, vines, shrubs and/or grasses that serve as erosion controls.

#### **APPLICATIONS:**

► This technique is applicable to all types of sites. Areas where preserving vegetation can be particularly beneficial are floodplains, wetlands, stream banks, steep slopes, and other areas where erosion controls would be difficult to establish, install, or maintain.

#### INSTALLATION/APPLICATION CRITERIA:

- Clearly mark, flag or fence vegetation or areas where vegetation should be preserved.
- Prepare landscaping plans which include as much existing vegetation as possible and state proper care during and after construction.
- Define and protect with berms, fencing, signs, etc. a setback area from vegetation to be preserved.
- Propose landscaping plans which do not include plant species that compete with the existing vegetation.
- Do not locate construction traffic routes, spoil piles, etc. where significant adverse impact on existing vegetation may occur.

#### LIMITATIONS:

- Requires forward planning by the owner/developer, contractor and design staff
- For sites with diverse topography, it is often difficult and expensive to save existing trees while grading the site satisfactorily for the planned development.
- May not be cost effective with high land costs.

#### MAINTENANCE:

- Inspection and maintenance requirements for protection of vegetation are low
- Maintenance of native trees or vegetation should conform to landscape plan specifications.

#### **OBJECTIVES**

- □ Housekeeping Practices
- ☐ Contain Waste
- Minimize Disturbed Areas
- Stabilize Disturbed Areas
- ☑ Protect Slopes/Channels☑ Control Site Perimeter
- Control Internal Erosion



# **WEBER COUNTY**

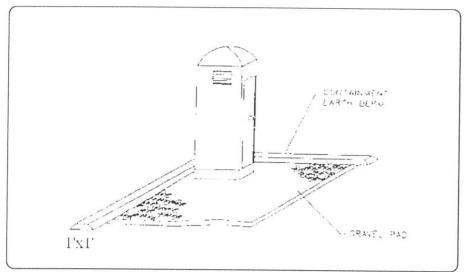
#### **ENGINEERING DEPARTMENT**

2380 Washington Blvd., Suite 240 Ogden, UT 84401 (801) 399-8374

#### **TARGETED POLLUTANTS**

- Sediment
- □ Nutrients
- ☐ Toxic Materials
- ☐ Oil & Grease
- ☐ Floatable Materials
- ☐ Other Waste
- High Impact
- Medium Impact
- □ Low or Unknown Impact

- ☐ Capital Costs
- ☐ O&M Costs
- ☐ Maintenance
- □ Training
- High
- Medium
- □ Low



Temporary on-site sanitary facilities for construction personnel.

#### **APPLICATION:**

All sites with no permanent sanitary facilities or where permanent facility is too far from activities.

#### **INSTALLATION/APPLICATION CRITERIA:**

- Locate portable toilets in convenient locations throughout the site.
- Prepare level, gravel surface and provide clear access to the toilets for servicing and for on-site personnel.
- Construct earth berm perimeter (See Earth Berm Barrier Information Sheet), control for spill/protection leak.

#### LIMITATIONS:

No limitations.

#### MAINTENANCE:

- Portable toilets should be maintained in good working order by licensed service with daily observation for leak detection.
- Regular waste collection should be arranged with licensed service.
- All waste should be deposited in sanitary sewer system for treatment with appropriate agency approval.

#### **OBJECTIVES**

- Housekeeping Practices
- Contain Waste
- ☐ Minimize Disturbed Areas
- ☐ Stabilize Disturbed Areas
- □ Protect Slopes/Channels□ Control Site Perimeter
- ☐ Control Internal Erosion



# **WEBER COUNTY**

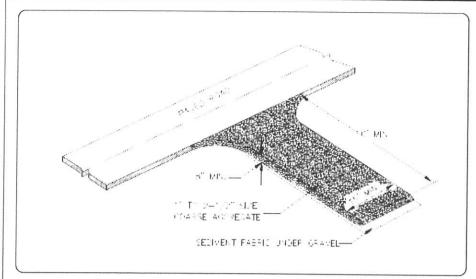
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#### **TARGETED POLLUTANTS**

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- ☐ Oil & Grease
- ☐ Floatable Materials
- Other Construction Waste
- High Impact
- Medium Impact
- □ Low or Unknown Impact

- Capital Costs
- O&M Costs
- Maintenance
- □ Training
- High
- Medium
- □ Low



A stabilized pad of crushed stone located where construction traffic enters or leaves the site from or to paved surface.

#### **APPLICATIONS:**

At any point of ingress or egress at a construction site where adjacent traveled way is paved. Generally applies to sites over 2 acres unless special conditions exist.

#### INSTALLATION/APPLICATION CRITERIA:

- Clear and grub area and grade to provide maximum slope of 2%.
- Compact subgrade and place filter fabric if desired (recommended for entrances to remain for more than 3 months.
- Place coarse aggregate, 1 to 2-1/2 inches in size, to a minimum depth of 8 inches.

#### **LIMITATIONS:**

- Requires periodic top dressing with additional stones.
- Should be used in conjunction with street sweeping on adjacent public rightof-way.

#### MAINTENANCE:

- Inspect daily for loss of gravel or sediment buildup.
- Inspect adjacent roadway for sediment deposit and clean by sweeping or shoveling.
- Repair entrance and replace gravel as required to maintain control in good working condition.
- Expand stabilized area as required to accommodate traffic and prevent erosion at driveways.

#### **OBJECTIVES**

- Housekeeping Practices
- ☐ Contain Waste
- ☐ Minimize Disturbed Areas
- ☐ Stabilize Disturbed Areas
- ☐ Protect Slopes/Channels
- ☑ Control Site Perimeter☐ Control Internal Erosion



# **WEBER COUNTY**

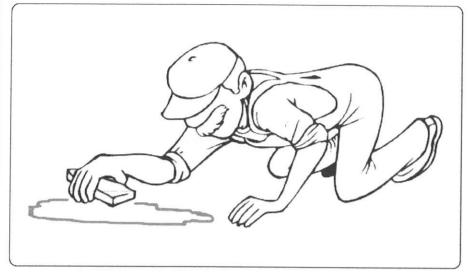
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#### **TARGETED POLLUTANTS**

- Sediment
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- ☐ Oil & Grease
- ☐ Floatable Materials
- ☐ Other Waste
- High Impact
- Medium Impact
- ☐ Low or Unknown Impact

- Capital Costs
- ☑ O&M Costs
- Maintenance
- □ Training
- High
- Medium
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#### **OBJECTIVES**

- M Housekeeping Practices
- Contain Waste
- ☐ Minimize Disturbed Areas
- ☐ Stabilize Disturbed Areas
- ☐ Protect Slopes/Channels
- ☐ Control Site Perimeter
- ☐ Control Internal Erosion



# **WEBER COUNTY**

#### **ENGINEERING DEPARTMENT**

2380 Washington Blvd., Suite 240 Ogden, UT 84401 (801) 399-8374

#### **DESCRIPTION:**

Practices to clean-up leakage/spillage of on-site materials that may be harmful to receiving waters.

#### **APPLICATION:**

➤ All sites

#### **GENERAL:**

- Store controlled materials within a storage area.
- Educate personnel on prevention and clean-up techniques.
- ▶ Designate an Emergency Coordinator responsible for employing preventative practices and for providing spill response.
- Maintain a supply of clean-up equipment on-site and post a list of local response agencies with phone numbers.

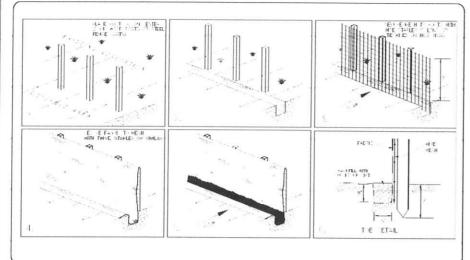
#### **METHODS:**

- Clean-up spills/leaks immediately and remediate cause.
- Use as little water as possible. NEVER HOSE DOWN OR BURY SPILL CONTAMINATED MATERIAL.
- Use rags or absorbent material for clean-up. Excavate contaminated soils. Dispose of clean-up material and soil as hazardous waste.
- Document all spills with date, location, substance, volume, actions taken and other pertinent data.
- Contact local Fire Department and State Division of Environmental Response and Remediation (Phone #536-4100) for any spill of reportable quantity.

#### **TARGETED POLLUTANTS**

- ☐ Sediment
- □ Nutrients
- Toxic Materials
- ☑ Oil & Grease
- ☐ Floatable Materials
- □ Other Construction Waste
- High Impact
- Medium Impact
- □ Low or Unknown Impact

- Capital Costs
- ☐ O&M Costs
- ☐ Maintenance
- Training
- High
- Medium
- □ Low



A temporary sediment barrier consisting of entrenched filter fabric stretched across and secured to supporting posts.

#### **APPLICATION:**

- Perimeter control: place barrier at downgradient limits of disturbance
- Sediment barrier: place barrier at toe of slope or soil stockpile
- Protection of existing waterways: place barrier at top of stream bank
- Inlet protection: place fence surrounding catchbasins

#### **INSTALLATION/APPLICATION CRITERIA:**

- Place posts 6 feet apart on center along contour (or use preassembled unit) and drive 2 feet minimum into ground. Excavate an anchor trench immediately upgradient of posts.
- Secure wire mesh (14 gage min. With 6 inch openings) to upslope side of posts. Attach with heavy duty 1 inch long wire staples, tie wires or hog rings.
- Cut fabric to required width, unroll along length of barrier and drape over barrier. Secure fabric to mesh with twine, staples, or similar, with trailing edge extending into anchor trench.
- ▶ Backfill trench over filter fabric to anchor.

#### LIMITATIONS:

- Recommended maximum drainage area of 0.5 acre per 100 feet of fence
- ▶ Recommended maximum upgradient slope length of 150 feet
- ► Recommended maximum uphill grade of 2:1 (50%)
- Recommended maximum flow rate of 0.5 cfs
- Ponding should not be allowed behind fence

#### MAINTENANCE:

- Inspect immediately after any rainfall and at least daily during prolonged rainfall
- Look for runoff bypassing ends of barriers or undercutting barriers.
- Repair or replace damaged areas of the barrier and remove accumulated sediment.
- Reanchor fence as necessary to prevent shortcutting.
- Remove accumulated sediment when it reaches ½ the height of the fence.

#### **OBJECTIVES**

- ☐ Housekeeping Practices
- ☐ Contain Waste
- ☐ Minimize Disturbed Areas
- ☐ Stabilize Disturbed Areas
- ☑ Protect Slopes/Channels
- ☑ Control Internal Erosion



# **WEBER COUNTY**

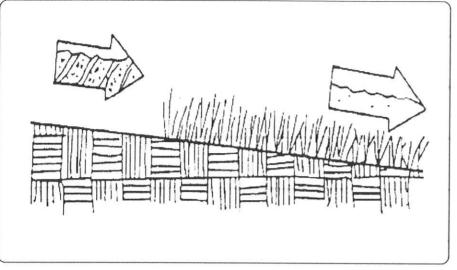
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2380 Washington Blvd., Suite 240 Ogden, UT 84401 (801) 399-8374

#### **TARGETED POLLUTANTS**

- Sediment
- ☐ Nutrients
- ☐ Toxic Materials
- ☐ Oil & Grease
- ☐ Floatable Materials
- ☐ Other Waste
- High Impact
- Medium Impact
- □ Low or Unknown Impact

- Capital Costs
- ☑ O&M Costs
- Maintenance
- □ Training
- High
- Medium
- □ Low



#### **OBJECTIVES**

- Housekeeping Practices
- ☐ Contain Waste
- ☐ Minimize Disturbed Areas
- Stabilize Disturbed Areas
- ☑ Protect Slopes/Channels
- ☐ Control Site Perimeter
  - Control Internal Erosion



# **WEBER COUNTY**

#### **ENGINEERING DEPARTMENT**

2380 Washington Blvd., Suite 240 Ogden, UT 84401 (801) 399-8374

#### **DESCRIPTION:**

Seeding of grass and plantings of trees, shrubs, vines and ground covers provide long-term stabilization of soil. In some areas, with suitable climates, grasses can be planted for temporary stabilization.

#### **APPLICATION:**

- Appropriate for site stabilization both during and after construction
- Any graded/cleared areas where construction activities have ceased.
- Open space cut and fill areas.
- Steep slopes, spoil piles, vegetated swales, landscape corridors, stream banks.

#### INSTALLATION/APPLICATION CRITERIA:

Type of vegetation, site and seedbed preparation, planting time, fertilization and water requirements should be considered for each application. Grasses:

- Ground preparation: fertilize and mechanically stabilize the soil.
- Tolerant of short-term temperature extremes and waterlogged soil composition.
- Appropriate soil conditions: shallow soil base, good drainage, slope 2:1 or flatter.
- Mowing, irrigating, and fertilizing are vital for promoting vigorous grass growth.

#### Trees and Shrubs:

- Selection criteria: vigor, species, size, shape & wildlife food source.
- ► Soil conditions: select species appropriate for soil, drainage & acidity.
- ▶ Other factors: wind/exposure, temperature extremes, and irrigation needs. Vines and Ground Covers:
- Ground preparation: lime and fertilizer preparation.
- Use proper seeding rates.
- Appropriate soil conditions: drainage, acidity and slopes.
- Generally avoid species requiring irrigation.

#### LIMITATIONS:

- Permanent and temporary vegetation may not be appropriate in dry periods without irrigation.
- Fertilizer requirements may have potential to create stormwater pollution.

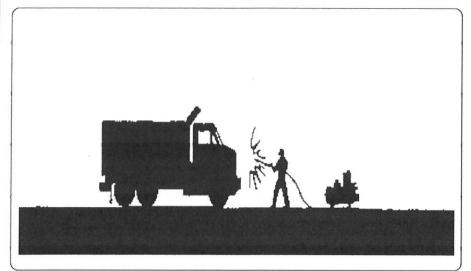
#### MAINTENANCE:

- Shrubs and trees must be adequately watered and fertilized and if needed pruned.
- Grasses may need to be watered and mowed.

#### TARGETED POLLUTANTS

- Sediment
- Nutrients
- Toxic Materials
- ☐ Oil & Grease
- □ Floatable Materials
- ☐ Other Waste
- High Impact
- Medium Impact
- □ Low or Unknown Impact

- Capital Costs
- ☑ O&M Costs
- Maintenance
- □ Training
- High
- Medium
- □ Low



Prevent or reduce the discharge of pollutants to stormwater from vehicle and equipment washing and steam cleaning by using off-site facilities, washing in designated, contained areas only, eliminating discharges to the storm drain by infiltrating or recycling the wash water, and training employees and subcontractors.

#### APPROACH:

- ▶ Use off-site commercial washing and steam cleaning businesses as much as possible. Washing vehicles and equipment outdoors or in areas where wash water flows onto paved surfaces or into drainage pathways can pollute stormwater. If you wash a large number of vehicles or pieces of equipment, consider conducting this work at an off-site commercial business. These businesses are better equipped to handle and dispose of the wash waters properly. Performing this work off-site can also be economical by eliminating the need for a separate washing operation at your site.
- ▶ If washing must occur on-site, use designated, bermed wash areas to prevent wash water contact with stormwater, creeks, rivers, and other water bodies. The wash area can be sloped for wash water collection and subsequent infiltration into the ground.
- Use as little water as possible to avoid having to install erosion and sediment controls for the wash area. Use phosphate-free biodegradable soaps. Educate employees and subcontractors on pollution prevention measures. Do not permit steam cleaning on-site. Steam cleaning can generate significant pollutant concentrations.

#### LIMITATIONS:

- Even phosphate-free, biodegradable soaps have been shown to be toxic to fish before the soap degrades.
- Sending vehicles/equipment off-site should be done in conjunction with Stabilized Construction Entrance. (See BMP in the Construction Section).
- ► The measures outlined in this fact sheet are insufficient to address all the environmental impacts and compliance issues related to steam cleaning.

#### MAINTENANCE:

Minimal, some berm repair may be necessary.

#### **OBJECTIVES**

- □ Manufacturing
- □ Material Handling
- Vehicle Maintenance
- Construction
- Commercial Activities
- □ Roadways
- □ Waste Containment
- Housekeeping Practices



# **WEBER COUNTY**

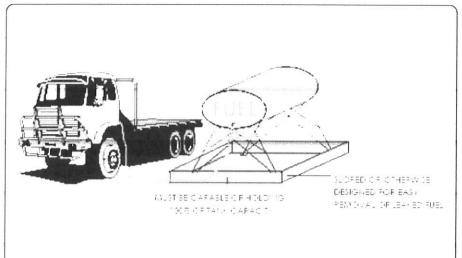
#### **ENGINEERING DEPARTMENT**

2380 Washington Blvd., Suite 240 Ogden, UT 84401 (801) 399-8374

#### **TARGETED POLLUTANTS**

- Sediment
- Nutrients
- Heavy Metals
- Toxic Materials
- Oxygen Demanding Substance
- Oil & Grease
- ☐ Floatable Materials
- ☐ Bacteria & Viruses
- High Impact
- ☑ Medium Impact
- □ Low or Unknown Impact

- Capital Costs
- ☐ O&M Costs
- ☐ Maintenance
- ☑ Training
- High
- Medium
- □ Low



### 

#### **OBJECTIVES**

- □ Manufacturing
- Material Handling
- ☑ Vehicle Maintenance
- Construction
- Commercial Activities
- ☐ Roadways
- □ Waste Containment
- Housekeeping Practices

# **WEBER COUNTY**

#### **ENGINEERING DEPARTMENT**

2380 Washington Blvd., Suite 240 Ogden, UT 84401 (801) 399-8374

#### **DESCRIPTION:**

Prevent fuel spills and leaks, and reduce their impacts to stormwater by using off-site facilities, fueling in designated areas only, enclosing or covering stored fuel, implementing spill controls, and training employees and subcontractors.

#### **APPROACH:**

- ▶ Use off-site fueling stations as much as possible. Fueling vehicles and equipment outdoors or in areas where fuel may spill fleak onto paved surfaces or into drainage pathways can pollute stormwater. If you fuel a large number of vehicles or pieces of equipment, consider using an off-site fueling station. These businesses are better equipped to handle fuel and spills properly. Performing this work off-site can also be economical by eliminating the need for a separate fueling area at your site.
- If fueling must occur on-site, use designated areas, located away from drainage courses, to prevent the runon of stormwater and the runoff of spills.
- Discourage "topping-off" of fuel tanks.
- Always use secondary containment, such as a drain pan or drop cloth, when fueling to catch spills/leaks. Place a stockpile of spill cleanup materials where it will be readily accessible. Use adsorbent materials on small spills rather than hosing down or burying the spill. Remove the adsorbent materials promptly and dispose of properly.
- Carry out all federal and state requirements regarding stationary above ground storage tanks. Avoid mobile fueling of mobile construction equipment around the site; rather, transport the equipment to designated fueling areas. With the exception of tracked equipment such as bulldozers and perhaps forklifts, most vehicles should be able to travel to a designated area with little lost time. Train employees and subcontractors in proper fueling and cleanup procedures.

#### **LIMITATIONS:**

 Sending vehicles/equipment off-site should be done in conjunction with Stabilized Construction Entrance (See BMP sheet in Construction section).

#### **MAINTENANCE:**

- ▶ Keep ample supplies of spill cleanup materials on-site.
- Inspect fueling areas and storage tanks on a regular schedule.

#### **TARGETED POLLUTANTS**

- ☐ Sediment
- □ Nutrients
- Heavy Metals
- Toxic Materials
- ☐ Oxygen Demanding Substance
- Oil & Grease
- ☐ Floatable Materials
- ☐ Bacteria & Viruses
- High Impact
- Medium Impact
- ☐ Low or Unknown Impact

- Capital Costs
- ☐ O&M Costs
- Maintenance
- ▼ Training
- High
- Medium
- □ Low

BMP: Street Sweeping	SS
Brown	OBJECTIVES
	<ul> <li>☐ Housekeeping Practices</li> <li>☐ Contain Waste</li> <li>☐ Minimize Disturbed Areas</li> <li>☐ Stabilize Disturbed Areas</li> <li>☐ Protect Slopes/Channels</li> <li>☐ Control Site Perimeter</li> <li>☐ Control Internal Erosion</li> </ul>
	TARGETED POLLUTANTS
DESCRIPTION:	HML ⊠□□ Sediment
Prevent sediment from entering storm water by sweeping the streets near construction activities.	Nutrients Heavy Metals Toxic Materials Oil & Grease
APPLICATION:	☐☐☒ Floatable Materials ☐☐☒ Bacteria & Viruses
<ul> <li>Useful for any paved streets near construction sites where sediment is blown, tracked, or spilled onto the streets.</li> </ul>	Other Waste
INSTALLATION / APPLICATION CRITERIA:	IMPLEMENTATION REQUIREMENTS
<ul> <li>The equipment used should be appropriate for the conditions. Vacuum sweepers work more effectively when the area is dry. Brush sweepers work better when the sediment is wet or stuck to the surface.</li> <li>Mechanical equipment should be operated and maintained according to the manufacturer's recommendations</li> </ul>	HML Capital Costs SMCOsts Maintenance Training Staffing Administrative
LIMITATIONS:	Administrative
<ul><li>Is labor and equipment intensive</li><li>May cause dust</li></ul>	H = High M = Medium L = Low
MAINTENANCE:	
The street should be checked daily for any sediment deposits. Street sweeping should be implemented whenever sediment from construction activity is found on the streets	

Appendix D – Acknowledgement Letter and Construction General Permit