# Common Plan SWPPP for Schields Residence

3825 E Sheep Creek Crossing Liberty Utah 84310

> Eric and Lisa Schields 2421 N Sierra Dr Eden Utah 84310

Jed Slama Construction Corp 1245 S 9400 E Huntsville Utah 84317

Date

7/16/2019



## 1. Project Information

Project Name: Schields Residence

## Stormwater Pollution Prevention Plan(SWPPP2019-07-16 Residential Common Plan

Zip: 84310

Address: 3825 E Sheep Creek Crossing

City: Liberty

Latitude 41' 20' 34.88" N

Longitude: 111' 51' 20.54" W

UPDES Permit Tracking Number: UTRH

Owner: Eric and Lisa Schields Contact Person: Jed Slama Address: 1245 S 9400 E

City: Huntsville State: Utah Zip: 84317

State: UT

Telephone Number: 801-430-6622 Email Address: jed@jsc-builders.com

General Contractor: Jed Slama Construction Corp

Contact Person: Jed Slama Address: 1245 s 9400 E

City: Huntsville State: Utah Zip: 84317

Telephone Number: 801-430-6622 Email Address: jed@jsc-builders.com

## 1.5

**Unknown Features** (although this may be a law under another program, it's not a permit requirement). Discovery of Historical, Archaeological or Paleontological Objects, Features, Sites, or Human Remains

- A. Immediately suspend construction operations in the vicinity(100 foot minimum buffer) of the discovery.
- B. Verbally notify the Public Works Department and provide them the exact location.
- C. Protect the discovery and provide written confirmation of the discovery to the City and State Historic Departments within two calendar days.
- D. Contractor and City follow State mitigation laws.

## 2. Best Management Practices

## 2.1 SWPPP Sign(see permit part 1.10, 4.2.11)

Description of construction board is filed in Appendix L Attached to company sign.

## 2.2 Sensitive Features Control (see permit part 2.2) N/A

## 2.2.x Wetlands

BMP description, rational for use and specifications, and details are filed in Appendix L There are no wetlands on this property.

# 2.2.x Water Bodies within or 30' from Disturbance Boundary(see permit part 2.3.5) Water Body

BMP description, rational for use and specifications, and details are filed in Appendix L

## 2.3 Sediment Control (see permit part 2.1.2, 2.1.3 & 2.3)

Silt Screen:

The natural vegetation around the property will screen on remaining sides of the property as the lot is flat.

## 2.3.x Trap/Filter Sediment at Property Boundary(see permit part 2.1.2)

BMP description, rational for use and specifications, and details are filed in Appendix L. Natural vegetation.

## 2.4.x Inlet Protection(see permit part 2.1.3 & 2.3)

N/A

BMP description, rational for use and specifications, and details are filed in Appendix L.

## 2.4.x Steep Slopes (see permit part 2.3.2)

N/A. Flat Lot.

BMP description, rational for use and specifications, and details are filed in Appendix L.

## 2.4.x Street Maintenance(see permit part 3.2.2)

## Street Cleanup

BMP description, rational for use and specifications, and details are filed in Appendix L. Manual Sweeping of road will be used to clean off dirt.

## 2.4 Top Soil Preservation(see permit part 2.5)

N/A

BMP description, rational for use and specifications, and details are filed in Appendix L.

## 2.5 Dust Control(see permit part)

## 2.5.x

N/A.

BMP description, rational for use and specifications, and details are filed in Appendix L

## 2.6 Egress Control(see permit part 2.4)

## 2.6.x Track Out(see permit part 2.4.1)

## **Gravel Track Out**

BMP description, rational for use and specifications, and details are filed in Appendix L. Gravel will be placed at driveway entrance for track out. Cars will be limited to parking on paved road or gravel track out area.

## 2.7 Waste Management Control(see permit part 4.2.6)

Trash Dumpster will remain on site during construction.

## 2.7.x Solid Waste(see permit part 2.4.3)

## Trash

BMP description, rational for use and specifications, and details are filed in Appendix L Trash dumpster will remain on site during construction for solid waste and trash.

## 2.7.x Construction Spoil(see permit part 2.1.1)

Spoil

BMP description, rational for use and specifications, and details are filed in Appendix L Spoil will remain behind perimeter controls and natural vegetation.

## 2.7.x Sanitary Waste(see permit part 2.4.4)

Porta Potty

BMP description, rational for use and specifications, and details are filed in Appendix L There will be a porta potty on site during construction.

## 2.7.x Cement Product Operations(see permit part 2.4.5, 2.9.2)

## Concrete washout:

BMP description, rational for use and specifications, and details are filed in Appendix L All concrete washout will be done inside lot in a made depression to contain run off.

## 2.7.x Concrete Cutting Operations(see permit part 2.9.2)

N/A

BMP description, rational for use and specifications, and details are filed in Appendix L. No concrete cutting will be needed.

## 2.7.x Non Aqueous Waste(see permit part 2.8.2)

## Paint cleanup:

BMP description, rational for use and specifications, and details are filed in Appendix L. Pain cleanup will happen inside 5 gallon buckets and disposed of in the dumpter.

## 2.7.x Construction Wastewater (see permit part 2.7, 2.9, 2.9.4)

N/A

BMP description, rational for use and specifications, and details are filed in Appendix L There will be no construction wastewater from this site.

## 2.8 Management of Construction Materials Control

## 2.8.x Storage of Construction Materials (see permit part 2.8.2)

### Storage

BMP description, rational for use and specifications, and details are filed in Appendix L Storage of materials will be done on the track out pad or garage.

## 2.8.x Construction Staging(backfill)(see permit part 2.1.1)

<u>N/A</u>.

BMP description, rational for use and specifications, and details are filed in Appendix L There will be no staging of materials.

## 2.8.x Construction Staging(Landscaping) (see permit part 2.1.1)

N/A

BMP description, rational for use and specifications, and details are filed in Appendix L There will be no landscaping done under this Swppp

## 2.9 Final Stabilization (see permit part 2.6)

## 2.9.x Landscaping Plan

N/A

## 2.9.x Temporary Containment of Sediment

<u>Sediment will be controlled via natural vegetation.</u> Silt fence to be used where needed.

## 3. Spill Prevention and Response Plan(see permit part 2.8.3, 2.9.3)

Any spills on site will be notified to the operator at once. Spills will be cleaned up by buckets or equipment and disposed of in sealed containers in the dumpster.

Description of Spill control Plan, details and policy are filed in Appendix L.

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
UFA	911

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 Municipal Storm Water 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 Municipal Storm Water Division.

**Emergency Numbers** 

Utah Hazmat Response Officer 24 hrs

(801)-538-3745

City Police Department

801-778-6600

Weber Sheriff Weber Engineering

201-399-8761

## 4. Site Map(s) (see permit part 4.2.3)

The SWPPP site maps are filed in Appendix B

## 5. Record Keeping

See the appendices in Appendix A-K.

SWPPP Inspections-Maintenance-Correction Report (permit part 3.2.1, 3.2.2, 3.3, 3.4, 4.2.12)

Inspections are required every 7 calendar days

Repair or replace BMPs prior to need or by end of week whichever comes first. Update the Inspection-Maintenance-Correction Report weekly.

Section 3.2.2 requires daily maintenance of pavements and site grounds.

See the Inspection-Maintenance-Correction Reports in Appendix E

Changes to the SWPPP (see permit part 4.2.12, 4.2.13)

See the Amendment Log in Appendix F.

Training(see permit part 4.2.7)

Training Logs and Documents are filed in Appendix H.

## 6. Discharge Information

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

1. Pineview Reservoir

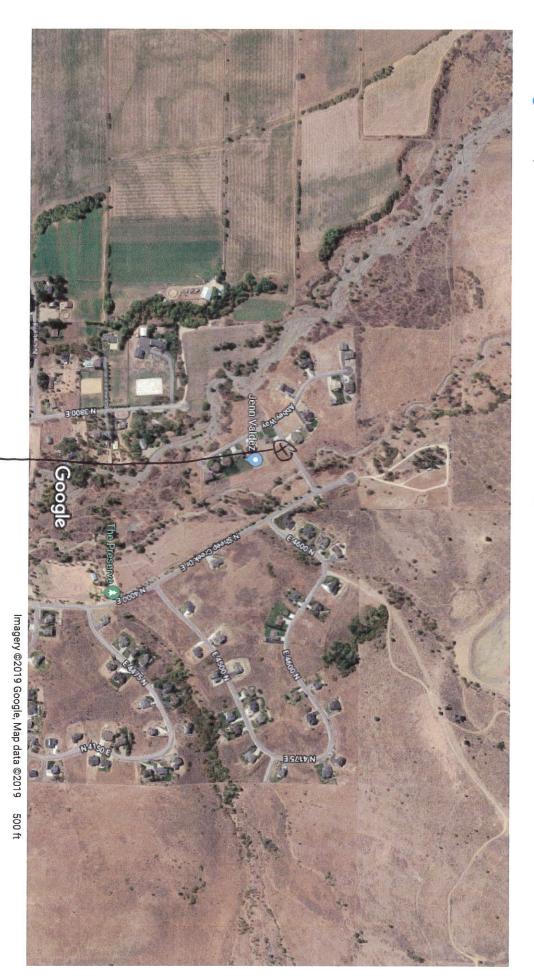
## 7. Certification, Notification and Delegation(see permit part 4.2.9)

Owner Certification: See documents filed in Appendix G. Operator Certification: See documents filed in Appendix G Delegation of Authority: There is no delegation of authority

**Subcontractor Certification:** 

**Notice of Permit Transfer Requirements** 

Google Maps Schields Residence 3825 E Sheep Creek Crossing Liberty Utah



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Jed Slama <jed@jsc-builders.com>

## **Online Storm Water Permit**

**stormwateronline@utah.gov** <stormwateronline@utah.gov> To: jed@jsc-builders.com

Wed, Jul 10, 2019 at 8:30 AM

Congratulations, you have successfully applied for coverage under the Utah Pollutant Discharge Elimination System Storm Water Common Plan Permit for Construction Activities. Your permit coverage number is UTRH94681, issued effective Jul 10, 2019 and expiring Jul 10, 2020.

Thank you.

Sincerely,

Division of Water Quality
Department of Environmental Quality

Appardix E

# Appendix F - Sample Corrective Action Log

Project Name: SWPPP Contact:

						Inspection
					Name(s)	Inspector
						Description of BMP Deficiency
					planned date/responsible person)	Corrective Action Needed (including
					Taken/Responsible person	Date Action

Begin Date		Address	Facility Name	
End Date	11			
		-		

Date					
BMP ID#					
BMP Description					
Inspected by:					
Cause for Inspection					
Exceptions Noted					
Actions Taken					

start a new log at that time. comments or documentation as necessary. Submit a copy of the completed log with the annual independent inspectors' report to the municipality, and Instructions: Record all inspections and maintenance for all treatment BMPs on this form. Use additional log sheets and/or attach extended

- BMP ID# Always use ID# from the Operation and Maintenance Manual.
- Inspected by Note all inspections and maintenance on this form, including the required independent annual inspection.
- Cause for inspection Note if the inspection is routine, pre-rainy-season, post-storm, annual, or in response to a noted problem or complaint.
- Exceptions noted Note any condition that requires correction or indicates a need for maintenance.
- Comments and actions taken Describe any maintenance done and need for follow-up.

End Date	Begin Date
	Address
	Facility Name

Date
BMP ID#
BMP Description
Inspected by:
Cause for Inspection
Exceptions Noted
Comments and Actions Taken

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Begin Date	Address	Facility Name
End Date		

start a new log at that time. comments or documentation as necessary. Submit a copy of the completed log with the annual independent inspectors' report to the municipality, and Instructions: Record all inspections and maintenance for all treatment BMPs on this form. Use additional log sheets and/or attach extended

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End Date	Begin Date
	Address
	Facility Name

comments or documentation as necessary. Submit a copy of the completed log with the annual independent inspectors' report to the municipality, and start a new log at that time. Instructions: Record all inspections and maintenance for all treatment BMPs on this form. Use additional log sheets and/or attach extended

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- Cause for inspection Note if the inspection is routine, pre-rainy-season, post-storm, annual, or in response to a noted problem or complaint.
- Exceptions noted Note any condition that requires correction or indicates a need for maintenance
- Comments and actions taken Describe any maintenance done and need for follow-up.

## High Priority Facilities Weekly Inspection Report Form

Facility Name	Inspection Date	Inspector Name	Deficiency Identified	Corrective Actions Taken
- many many many many many many many many				
***************************************				

STORM WATER MANAGEMENT PLAN - 2010 APPENDIX D

## Weekly High Priority Inspection Log

City Name:																										
Facility Name	Date:	Deficienci	Date;	Deficiencia	Date:	Deficiencia	Date;	Deficiencia	Date;	Deficiencia	Date:	Deficienci	Date:	Deficiencia	Date:	Deficiencies found										
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Note: 1) Enter Y or N for deficiencies found. If "Y" type of deficiency and corrective action taken must be documented on the Inspection note log

STORM WATER MANAGEMENT PLAN - 2010 APPENDIX D

## WEEKLY VISUAL INSPECTION SOP

PREPARAT	ION	
		Identify "High Priority" facilities  Map of location  Become familiar with potential pollutants at the site
PROCESS		
		Look for evidence of spills at the site  If a spill is found assess the general area to identify its source  Whenever possible take photographs of the suspected illicit discharge
CLEAN-UP		
		Clean up spill immediately to prevent contact with precipitation or runoff Initiate spill response
DOCUMENT	ΓΑΤ	ION
	Ш	Fill out Weekly High Priority Inspection Log for facility and mark that the weekly inspection has been completed  If a deficiency was found make note on the Weekly High Priority Inspection Log and fill out the Note Log for that particular facility

(Attach additional sheets of narrative, pictures and checklists, as necessary)



# ADDITIONAL COMMENTS AND CORRECTIVE ACTIONS FOR SWPPP COMPLIANCE



Site Name:		Date of Evaluation:	Page of
Site Address:			
Site Address.			
	TOTAL MARKET ALL COMMENTS OF STREET AND ACCURATE AND ACCU		
-,			
		3 SEV Codes and D	
DOR11	Discharge without a permit	BR19B	Failure to properly operate and maintain BMP's
DOR18	Failure to apply for a Notice of Termination	BR19A	Failure to properly install/implement BMP's
30R12 30C17	Failure to conduct inspections Failure to develop any or adequate SWPPP/SWMP	EOR16 AOR22	Failure to submit required report (non-DMR)  Narrative effluent violation
BOC18 BOR41	Failure to implement SWPPP/SWMP	DOR12	Failure to submit required permit information
BOR41	Failure to maintain records	AOR12	Numeric effluent violation
COR11	Failure to monitor	BOR42	Violation of a milestone in an order



## SWPPP COMPLIANCE INSPECTION FORM



Project Name:	A	ddress:		Date:			
Owner:	Contractor (Gen	/Sub):		Start time:			
Site Contact:		Phone:		Stop time:			
UPDES Permit #:	Expiration:	Weather: Sunny Cloudy Raining	Snowing Oth	ner:			
Date of last rain event:	Duration:	Approx. Rainfall (in):					
Inspected By (Print):		Local Jurisdiction or County:					
Reason for Inspection: Sched	duled Complaint/Tip Rand	a was some wasted					
Inspection SW sampling	(S) State						
Code (circle): SW non-sampling	Inspector Code (circle): (L) Local	Type Code (circle): 1 - Municipa	1 2 - Industrial	3 - State			
SWPP	P, EROSION, SEDIMENT AND HO	DUSEKEEPING BMP'S INFORMATION	٧		VES I	NO	N/A
1. Is the SWPPP on site and accessible	le, or is the SWPPP location posted in an o	obvious place and reasonably accessible (in a st	nort time)?				
	of, and good housekeeping BMP's installed						
<ol> <li>Has the SVVPPP been updated to re crossed off site map, new BMP details</li> </ol>	eflect the current site conditions (modifications)  & spec's in SWPPP, SWPPP amendment	ons dated & initialed on site map, new BMPs on Log, etc.)?	site map, discontir	nued BMPs		l	
4. Are on-site inspections being perform	med and recorded by a qualified person on	a weekly or biweekly basis, reporting items req	uired by permit? (	Inspector	$\neg$	$\neg$	
	ms/repairs, corrective action, new BMPs, re n previous inspections been addressed and	emoved BMPs, discharges, etc.)  d documented within the time frame allotted by ti	he inspector?		+	+	
		or diverted around the site? (e.g. perimeter cont		nce.	_	$\dashv$	
upgradient boundary diversion, down g	gradient boundary sediment control, etc.)	2 (100 mm) - 1 (10					
<ol> <li>Is there evidence of sediment dischanged.</li> <li>Is there evidence of vehicles tracking</li> </ol>		m the construction site in downstream locations	?		$\dashv$	-	
		impervious surfaces (roads, drives) that could be	e washed with SM	/ to a storm	-	-	
drain or water body?							
<ol> <li>Is there a need to repair, maintain, roughening, pipe slope drain, dust con</li> </ol>		ary stabilization, erosion blankets, mulch, vegeta	ted strips, rip rap,	surface			
		nce, check dams, fiber rolls, sediment trap/basin	, inlet protection, w	vaddles,	$\neg$	+	-
straw bails, curb cut-back, etc?						_	
	or improve good nousekeeping controls (c eling areas, concrete wash out area, prope	lean track out pad, sweeping, construction mater curb ramps, spill prevention, etc.)?	eriais managemen	t, litter/trash			
13. Are there disturbed areas that have	e not had construction activities for 14 to 21	days without stabilization? (except snow or froz	zen ground)?			$\top$	
<ol> <li>Are there places where BMPs are r</li> </ol>	needed and should be installed or not need	ded and should be removed?					
		IVE ACTIONS FOR SWPPP COMPLIA					
Identify the problem and its location. If appl		to be completed. However, only if qualified (e.g., you the date when corrections are made.	are a designer) shou	ld you be manda	ting spe	ecific E	3MPs t
				The second second			
		***************************************					$\neg$
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nspector, please list all applicable S							
athered and evaluated the information subn	nitted. Based on my inquiry of the person or pers	direction or supervision in accordance with a system or sons who manage the system, or those persons directle e that there are significant penalties for submitting fals	y responsible for gati	hering the inform	ation, th	ne info	
nspector:	Nama	(Title)	(Cianatura)		75	nt-1	
(Print	t Name)	(Title)	(Signature)		(D	ate)	
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# ADDITIONAL COMMENTS AND CORRECTIVE ACTIONS FOF SWPPP COMPLIANCE WEBER COUNTY



Site Name:		Date of Evaluatio	in:		Page	of
Site Address:						
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DOR11	EPA Form 3560-3 \$1 Discharge without a permit	BR19B	Description	<b>ns</b> Failure to properly operate	and maintain DMI	Die
DOR18	Failure to apply for a Notice of Termination	BR19A	F	ailure to properly operate	mplement BMP's	0
BOR12	Failure to conduct inspections	EOR16	F	ailure to submit required	report (non-DMR)	
BOC17 BOC18	Failure to develop any or adequate SWPPP/SWMP Failure to implement SWPPP/SWMP	AOR22 DOR12		Narrative effluent violation Failure to submit required		
BOR41	Failure to maintain records	AOR12	1	Numeric effluent violation		
COR11	Failure to monitor	BOR42		Violation of a milestone in	an order	



# UPDES STORM WATER INSPECTION EVALUATION FORM FOR SWPPP COMPLIANCE



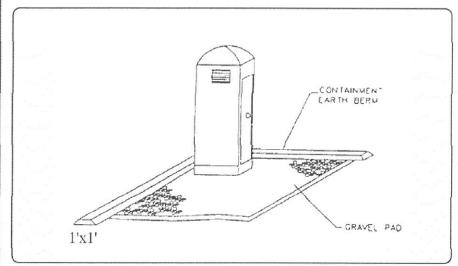
BACKGR	≀OU	ND II	NFORM/	ATION			
Site Name:					UPDES Permit #:		
Site Address:							
Local Jurisdiction or County:							y
Permit Effective Date:		Pe	ermit Expirati	on Date:			
Total Project Area: Project Type: (circle) Subdivision Com	nmercia		otal Disturbe		Linear (Road/Pipe/Power) Land Di	sturbar	nce
OPERATOR		-	us de la companya de			0.0	100
NAMES	1000000	********	NUMBERS	RWAIN	ZN E-MAIL		
Operator:	_						
Onsite Facility Contact:	_			-			
Important Contacts:							
Important Contacts:							
SWPPP PRE-SITE	REV	IEW	INFORM	IATION		YES	NO
1. Has a pre-construction review of the SWPPP been conducted by the ap	propria	ate mur	nicipal agenc	y?			
Are contact names and telephone numbers listed in the SWPPP?							
<ol> <li>Does the SWPPP include a site map showing storm drains, slopes/surfa disturbance, surface waters (name of receiving water), structural controls,</li> </ol>							
Does the SWPPP have an estimate of the area to be disturbed, a seque					The state of the s		
description of the soil types, controls for discharges from (asphalt/concrete the construction activity?	e) batch	h plants	s if any, show	/ wetland a	reas, and have a desription of the nature of		
5. Does the SWPPP and site map show erosion and sediment controls place.	cemer	nt & det	ails (e.g. ero	sion blanke	ets, mulch, slope drains, check dams,		
sediment basins, grass-lined channels, fiber rolls, sediment traps, silt fence							
<ol><li>Does the SWPPP and site map show and describe good housekepping containment and removal, sanitary waste, concrete washout pits, etc)</li></ol>	COLILI	ois (e.y.	. track out pa	id, street s	weeping, material storage, construction waste		
7. Are post-construction elements included in the SWPPP? (i.e. grass swa			n basins, veg	jetated filte	r strips, infiltration, depression storage,		
landscaping/xeriscaping, discontinuous concrete or hard surface SW converses.  8. Does the SWPPP address endangered species and historic preservation.		e, etc.)					
Solution     Solution		fateme	nf (see perm	if part 5.16	c.17		
Are the NOI and a copy of the State permit in the SWPPP?	200		nt (000 ps	t part o	0.)1		
NOTICE OF TERM	MIN	ATIO	N (NOT	INCDE	CTION		
	VIII						
Site Name:		Date o	of Evaluation	:			
Site Address:		1					
Inspected By:	•	Title\C	organization:				
	YES	NO			COMMENTS:		
Has the site been properly stabilized according to permit requirements?							
2. Have all temporary BMPs been removed?							
3. Have post-construction (permanent storm water system) elements been							
constructed and inspected in accordance with approved project drawings?		)					
4. Is the site acceptably clean?							
I certify under penalty of law that this document and all attachments were prepared u							
properly gathered and evaluated the information submitted. Based on my inquiry of the information, the information submitted is, to the best of my knowledge and belief true							
including the possibility of fine and imprisonment for knowing violations.							
Inspector: (Print Name) (Tit	tíe)				(Signature) (D	ate)	
Operator							
Operator: (Print Name) (Til	tle)				(Signature) (D	ate)	

# Appendix G - Sample SWPPP Amendment Log

Project Name: SWPPP Contact:

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

Goraix. 1C.



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



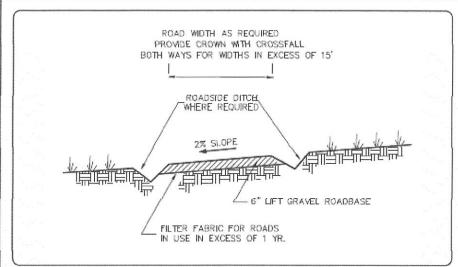
## ENGINEERING DEPARTMENT

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



Temporary stabilization of on-site roadway by placement of gravel roadbase.

## APPLICATION:

- On-site roadways used daily by construction traffic (may not apply to gravelly type soils)
- Parking or staging areas susceptible to erosion due to traffic use

## INSTALLATION/APPLICATION CRITERIA:

- Grade temporary access road with 2% cross fall, for two-way width provide crown.
- ▶ Provide roadside ditch and outlet controls where required.
- ▶ Place 6 inches of 2-inch to 4-inch crushed rock on driving area

## LIMITATIONS:

- May require removal of gravel roadbase at completion of activities if final cover is not impervious
- ▶ May require controls for surface storm water runoff

## MAINTENANCE:

- Inspect after major rainfall events and at least monthly.
- Place additional gravel as needed and repair any damaged areas.
- Maintain any roadside drainage controls.

## **OBJECTIVES**

- M Housekeeping Practices
- ☐ Contain Waste
- Minimize Disturbed Areas
- ☑ Stabilize Disturbed Areas
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# **WEBER COUNTY**

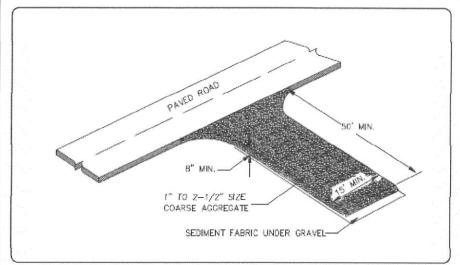
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- High
- Medium
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A stabilized pad of crushed stone located where construction traffic enters or leaves the site from or to paved surface.

## 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
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# **WEBER COUNTY**

## **ENGINEERING DEPARTMENT**

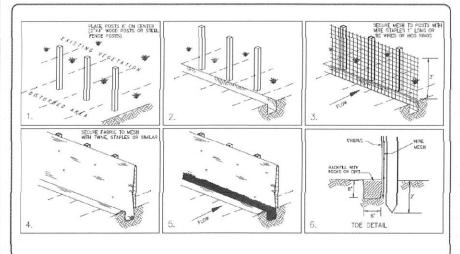
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BMP: Silt Fence SF



## **OBJECTIVES**

- Housekeeping Practices
- ☐ Contain Waste
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- ☑ Control Site Perimeter
- ☑ Control Internal Erosion

## **DESCRIPTION:**

 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.



# WEBER COUNTY

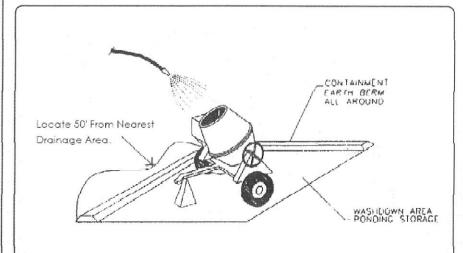
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- □ Low



Prevent or reduce the discharge of pollutants to storm water from concrete waste by conducting washout off-site, performing on-site washout in a designated area, and training employees and subcontractors.

## APPLICATIONS:

▶ This technique is applicable to all types of sites.

## INSTALLATION/APPLICATION CRITERIA:

- ▶ Store dry and wet materials under cover, away from drainage areas.
- Avoid mixing excess amounts of fresh concrete or cement on-site.
- Perform washout of concrete trucks off-site or in designated areas only.
- Do not wash out concrete trucks into storm drains, open ditches, streets, or streams
- Do not allow excess concrete to be dumped on-site, except in designated areas.
- When washing concrete to remove fine particles and expose the aggregate, avoid creating runoff by draining the water within a bermed or level area. (See Earth Berm Barrier information sheet.)
- ▶ Train employees and subcontractors in proper concrete waste management.

## LIMITATIONS:

▶ Off-site washout of concrete wastes may not always be possible.

## MAINTENANCE:

- Inspect subcontractors to ensure that concrete wastes are being properly managed.
- If using a temporary pit, dispose hardened concrete on a regular basis.

## **OBJECTIVES**

- Housekeeping Practices
- ☑ Contain Waste

- ☐ Minimize Disturbed Areas
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