

Common Plan SWPPP for Bergen Residence

2402 N Nordic Valley Drive

Eden, UT 84401

Imprint Builders

952 S 250 E

Farmington, UT 84025

Date

10/10/2019



1. Project Information

Project Name: Bergen Residence

Address: 2402 N Nordic Valley Drive

City: Eden

State: UT

Zip: 84310

Latitude: 41°18'08.5"N

Longitude: 111°51'20.2"W

UPDES Permit Tracking Number: UTRH96715

Owner: John Bergen

Contact Person: Dave Nielsen

Address: 2402 N Nordic Valley Drive

City: Eden

State: UT

Zip: 84310

Telephone Number: 801.292.2223

Email Address: dave@olobuilders.com

General Contractor: IMPRINT BUILDERS

Contact Person: Dave Nielsen

Address: 942 S 250 E

City: Farmington

State: UT

Zip: 84025

Telephone Number: 801.292.2223

Email Address: dave@olobuilders.com

Answering "no" to the two questions below means the project is not eligible for this permit.

Is the project in Indian Country?

Yes

No

Is the project a residential building on a single lot and disturbing one acre or less?

Yes

No

2. Pollution Sources/Best Management Practices

Answer yes or no whether the following features are located at your site. If yes, select the BMP(s) that will be used to protect each feature. If no, continue to the next question. Attach necessary illustrated details for proper installation in Appendix G, and show locations of all controls on Site Map in Appendix A.

- 2.1 Is there a SWPPP sign on site?** (see permit part 1.10) **Yes** **Required**
The sign must include the UPDES tracking number, the owner or general contractor name, phone number and email, and if the SWPPP is on-line, instructions on how to view it. The size requirement is to be readable from a publicly accessible point.
- 2.2 Will there be construction dewatering on the site?** (see permit part 2.7) **Yes** **No**
BMP(s): Dewatering of the construction area is needed and a separate dewatering permit has been obtained to treat and discharge water. *Construction Dewatering (if discharged offsite) must be covered by UPDES Permit UTG070000.*
 Water from the dewatering of the construction area will be infiltrated on site.
- 2.3 Will there be non-storm water discharges on the site?** (see permit part 1.3) **Yes** **No**
Allowable discharges include: Flushing of drinking water or irrigation water (not including wash or cleaning waters), water used for dust control, spring water or groundwater not exposed to construction activities, water from emergency fire-fighting activities, and water from foot drains not exposed to construction activities. (see permit part 2.4.5 & 2.9).
Please list all anticipated non-storm water discharges: [Click here to enter text.](#)

What will you do to manage the non-storm water discharges? *Please list direct discharges, contained non-storm water discharges, and discharges that are treated separately.*

- BMP(s):** All non-storm water discharges are listed as allowable per permit part 1.3 and discharged
 All non-storm water discharges that are not allowed are properly contained (see questions 2.12 and 2.16)
 All non-storm water discharges that are contaminated with sediment only (free of chemicals, oils, etc.) will be treated in a sediment basin or equivalent (see permit part 2.8.1).
 Other: [Click here to enter text.](#)

- 2.4 Is it possible for the total area of disturbance to be phased, minimizing the total exposure of disturbed soil at one time?** (see permit part 2.3.1) **Yes** **No**
If disturbance can be minimized please show the locations on the site map and summarize (here) where disturbances will be delayed for some of the disturbed area: [Click here to enter text.](#)

- 2.5 What perimeter controls will be used to prevent sediment from leaving the site?** (permit part 2.1.2 & 2.3)

- BMP(s):** Silt Fence Berms
 Vegetative Buffer Cut-Back-Curb
 Staked straw Wattles (Fiber Rolls) Weighted Wattles
 Other: [Click here to enter text.](#)

- 2.6 Are surface waters located within 30 feet of your project's earth disturbances?** **Yes** **No**
Note: *A 30' natural vegetative buffer MUST be maintained by water bodies. If a buffer less than 30' is used, you must demonstrate that the additional controls offer the same protection as a 30' natural vegetative buffer, and select the reason for exemption below. (see permit part 2.3.5)*

- BMP(s):** 30' Natural Vegetative Buffer
If less than 30' Natural Vegetative Buffer select additional Controls:
 2 Silt Fence Barrier 2 Straw Wattle Barriers (Fiber Roll)
 Other: [Click here to enter text.](#)

- 2.7 Are there critical or sensitive areas (such as preservation of the drip lines around trees, wetlands, buffer zones by water bodies, etc.) located on or adjacent to the site?** (see permit part 2.2) **Yes** **No**

- BMP(s):** Separate and isolate with environmental fencing
 Other: [Click here to enter text.](#)

- 2.8 What track out control will be used to prevent dirt from being tracked on streets as vehicles leave the site?** (see permit part 2.4.1)

- BMP(s):** Track Out Pad Cobble Gravel
 Rumble Strips Wash Down Pad Delivery Pad
 Restricted Site Selective Access During Dry Weather (Dry soil) Access
 Other: [Click here to enter text.](#)

- 2.9 Do you have storm drain inlets on or down gradient of this site?** (see permit part 2.1.3) **Yes** **No**
Protection must address the curb inlet opening (throat) as well as the grate.

Where is/are the nearest downstream inlet(s) and how will you protect them: [Click here to enter text.](#)

- BMP(s):** Rock/Sand-filled Bags Drop Inlet Bags
 Filter Fabric Gravel or Sand filled Wattles
 Proprietary inlet devices
 Other: [Click here to enter text.](#)

2.10 Will curb ramps be used at the site? (see permit part 2.4.2) **Yes** **No**
If curb ramps are used it must be done with material [not dirt] that will not wash away in storm water.

- BMP(s):** Crushed Rock Wood/Steel Ramps
 Other: [Click here to enter text.](#)

2.11 Will there be stockpiles or spoil piles on the site? **Yes** **No**

Note: Select "Contained by other BMP" if another BMP on your site will contain runoff from the stockpiles. Materials that can be transported with precipitation must not be placed in the street. (see permit part 2.1.1)

- BMP(s):** Surrounded by Silt Fence Surrounded by Staked Straw
 Covered with Tarp Wattles
 Temporary – Removed same day
 Contained by other BMP. Explain: [Click here to enter text.](#)
 Other: [Click here to enter text.](#)

2.12 Does the project include installation of concrete, masonry, stucco, and paint (water based) work in this project? (see permit part 2.4.5 & 2.9.1) **Yes** **No**
Wash water must be contained, the solids dried, and disposed of at a landfill.

- BMP(s):** Lined Depression Steel Dumpster
 Regional Washout (per development)
 Other: [Click here to enter text.](#)

2.13 How will solid waste be dealt with on the site? (see permit part 2.4.3)
Light trash in uncovered dumpsters can blow out and scatter with wind and rain may fall on uncovered leachable material in the dumpster and leak out the bottom causing pollutants to escape.

- BMP(s):** Bag Lightweight Trash Leak Proof Dumpsters
 Receptacles with Lids Other: [Click here to enter text.](#)

2.14 Will there be a need to dispose of solvents, oil, fuel, etc. liquid waste? (see permit part 2.9) **Yes** **No**

- BMP(s):** Contained and Removed from the site Collected for Reuse
 Other: [Click here to enter text.](#)

2.15 How will sanitary waste be handled on the site? (see permit part 2.4.4)

- BMP(s):** Portable Toilet(s) *(must be staked down on dirt surface & 10' from curb)*
 Onsite or Adjacent Indoor Bathrooms
 Portable Toilet Secondary Containment (secured down with straps to heavy weights)
 Other: [Click here to enter text.](#)

2.16 How will you minimize the discharge of pollutants from spills and leaks? (see permit part 2.8.3)

- BMP(s):** Use of drip pans Offsite fueling, and maintenance
 Spill kit Spill response plan.
 Other: [Click here to enter text.](#)

- 2.17 Will there be a need to store construction materials on site?** (see permit 2.8.2) **Yes** **No**
Minimize the exposure of materials with a pollution risk (certain building and landscaping materials, fertilizers, pesticides, herbicides, detergents).
BMP(s): Covering Erodible or Liquid Materials Secondary Containment
 Strategic Storage and Staging Stored off-site
 Enclose them in a weather proof shed.
 Other: [Click here to enter text.](#)
- 2.18 Does your site have steep slopes (greater than 70%)?** (see permit part 2.3.2) **Yes** **No**
BMP(s): Erosion Control Blanket Avoid Disturbance on slope
 Seeding Hydroseed
 Mulch Takifiers
 Other: [Click here to enter text.](#)
- 2.19 Are there site conditions that cause storm water flows with highly erosive velocities?** (see permit parts 2.3.3 and 2.3.4) **Yes** **No**
Flows must be controlled to minimize sediment transport.
BMP(s): Gravel Check Dam Straw Wattles (Fiber Rolls) Check Dam
 Divert Flows around the Site Armored channel (riprap, geotextile, other)
 Other: [Click here to enter text.](#)
- 2.20 How will you reduce storm water volume to minimize sediment transport, channel and stream bank erosion?** (see permit parts 2.3.4 and 2.3.3)
BMP(s): Utilize basin, depression storage of storm water, cut back curb, or other to hold and infiltrate.
 Prevent heavy equipment (as much as possible) from compacting soil so storm water will infiltrate easier.
 Rip soil after heavy equipment has caused compaction.
 Other: [Click here to enter text.](#)
- 2.21 Is there a need for dust control on the site (regulatory or for practical reasons)?** **Yes** **No**
BMP(s): Wetting with Water Cover dirt piles with a tarp
 Use Magchloride, Calcium Chloride or Lignan Sulfonate
 Stabilize surface with mulch, gravel or other surface cover
 Other: [Click here to enter text.](#)
- 2.22 Will there be disturbed areas on the site that will need to be temporarily stabilized before the project is completed?** (see permit part 2.6) **Yes** **No**
Places that are disturbed and then left for over 14 days with no activity, must be temporarily or permanently stabilized.
BMP(s): Bark or other mulch Hydro-mulch Seeding
 Tackifier Staked netting with straw mulch
 Other: [Click here to enter text.](#)
- 2.23 Will the house be sold without any landscaping?** **Yes** **No**

If so, how will you leave the site for the new home owner so sediment will be contained on site until the home owner completes landscaping? *(the permit can be terminated when the owner occupies the house even though the site is not stabilized).*

- BMP(s):**
- | | | |
|---|---|-------------------------------------|
| <input type="checkbox"/> Mulching/Hydro-mulching | <input type="checkbox"/> Swales | <input type="checkbox"/> Silt Fence |
| <input type="checkbox"/> Wattles | <input type="checkbox"/> Cut-Back-Curb | <input type="checkbox"/> Seeding |
| <input type="checkbox"/> Vegetated Buffer | <input type="checkbox"/> Grade Front-Yard Lower than Sidewalk | |
| <input type="checkbox"/> Other: Click here to enter text. | | |

3. Sequence of Construction Activity

Type of Construction Activity	Approximate Date Range
Start/End of the Project	10/15/19 –5/15/20
Excavation activities	10/15/19
Foundation/Footings	11/10/19
Backfill	11/25/19
Erection of Building	12/01/19
Utility Lines installed <i>(you may need to separate this into Plumbing lines, electrical lines, gas lines, water lines, Internet lines, etc.)</i>	04/15/20
<i>Insert more rows for any stage that should be included</i>	
<i>Landscaping (if the house is sold or occupied by owner with landscaping, if not landscaping should not be included)</i>	

4. Site Map

On a blank page (or include a page from the architectural drawings that show site layout and dimensions), please draw a map (and place this map in Appendix A) 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 (if there are steep areas show steep areas)
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 protection, 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
 10. areas where disturbances will be delayed minimizing total exposed surface at one time.

5. Potential Sources of Pollutants

Potential sources of sediment to storm water runoff:

- Clearing and grubbing operations
- Grading and site excavation operations
- Vehicle tracking
- Topsoil stripping and stockpiling
- Landscaping operations

Potential pollutants and sources, other than sediment, to storm water runoff:

- Combined Staging Area—small fueling activities, minor equipment maintenance, sanitary facilities, and hazardous waste storage.
- Materials Storage Area—general building materials, solvents, adhesives, paving materials, paints, aggregates, trash, and so on.
- Construction Activity—paving, curb/gutter installation, concrete pouring/mortar/stucco, and building construction
- Concrete Washout Area

For all potential construction site pollutants, see Table 2 below.

Table 2. Potential construction site pollutants. Circle all that applies to your site and in the last column identify pollution prevention measures to minimize their discharge.

Material/Chemical	Storm Water Pollutants	Common Location*	Pollution Prevention Methods
Pesticides (insecticides, fungicides, herbicides, rodenticide)	Chlorinated hydrocarbons, organophosphates, carbamates, arsenic	Herbicides used for noxious weed control	
Fertilizer	Nitrogen, phosphorous	Newly seeded areas	
Plaster	Calcium sulphate, calcium carbonate, sulfuric acid	Building construction	
Cleaning solvents	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates	No equipment cleaning allowed in project limits	

Material/Chemical	Storm Water Pollutants	Common Location*	Pollution Prevention Methods
Asphalt	Oil, petroleum distillates	Streets and roofing	
Concrete	Limestone, sand, pH, chromium	Curb and gutter, building construction	Central Washout w/ berm
Glue, adhesives	Polymers, epoxies	Building construction	
Paints	Metal oxides, Stoddard solvent, talc, calcium carbonate, arsenic	Building construction	
Curing compounds	Naphtha	Curb and gutter	
Wood preservatives	Stoddard solvent, petroleum distillates, arsenic, copper, chromium	Timber pads and building construction	
Hydraulic oil/fluids	Mineral oil	Leaks or broken hoses from equipment	
Gasoline	Benzene, ethyl benzene, toluene, xylene, MTBE	Secondary containment/staging area	
Diesel Fuel	Petroleum distillate, oil & grease, naphthalene, xylenes	Secondary containment/staging area	
Kerosene	Coal oil, petroleum distillates	Secondary containment/staging area	
Antifreeze/coolant	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)	Leaks or broken hoses from equipment	
Sanitary toilets	Bacteria, parasites, and viruses	Staging area	See Site map of Swppp

*(Area where material/chemical is used on-site)

6. 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:

Berm/Basing Concrete washout, portable toilet on site, Clean street if/when vehicles move from street to property, gravel next to curb for excavation equipment to minimize dirt in road. Fiber rolls on curbs at property lines to prevent gravel/debris in storm sewer.

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 within 14 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
Local Fire Department	(801)-782-8159

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:

- 1st Priority: Protect all people (including onsite staff)
- 2nd Priority: Protect equipment and property
- 3rd 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 Storm Water Division.

6. 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 [Weber County](#) Storm Water Division.

Emergency Numbers

Utah Hazmat Response Officer 24 hrs	(801)-538-3745
City Police Department	(801) 782-6736
City Engineering Division	(801) 782-8529

7. 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 G. Inspection reports require reporting on BMPs and how effective they are (download inspection reports from the DWQ construction storm water website under the Common Plan Permit). 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 G 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:

Imprint Builders job foreman or other party will correct any items found by the inspector within time frames given by inspector.

Inspections and Corrective Actions: All inspections and corrective actions must be logged using the “Inspection/Correction Action Log” attached in Appendix E. The log should be filled out completely for each BMP.

8. Training of Sub-Contractors

All sub-contractors, installers of utility connections, and others that perform activities that are affected by permit requirements will be informed about permit requirements that pertain to their scope of work.

Sub-Contractors that have been informed:

Contractor	Date	Topic(s) Covered	Initials of Trainer
Excavator			

Gas utilities			
Plumbing connection			
Electrical connection			
Concrete foundation walls			
Concrete flat work			
Landscaper			
Other: Click here to enter text.			
Other: Click here to enter text.			
Other: Click here to enter text.			
Other: Click here to enter text.			

9. Changes to the SWPPP

All changes to this SWPPP must be redlined, dated, and initialed in the SWPPP document and on the site map.

10. Record Keeping

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

1. A copy of the Common Plan Permit (Appendix B)
2. The signed and certified NOI form (Appendix C)
3. Inspection reports (Appendix E)

11. Delegation of Authority (if any)

Duly Authorized Representatives or Positions:

Company/Organization: IMPRINT BUILDERS
 Name: Glade Jones
 Position: Owner
 Address: 952 S 250 E
 City: Farmington State: Utah Zip: 84025
 Telephone: (801) 292-2223 Fax/Email: (XXX) XXX-XXXX

Owner/General Contractor Signature: Glade Jones Date: 10/29/2019

Additional Duly Authorized Representatives or Positions:

Company/Organization: IMPRINT BUILDERS
 Name: David Nielsen
 Position: General Manager
 Address: 952 S 250 E
 City: Farmington State: UT Zip: 84025
 Telephone: (801) 292-2223 Fax/Email: (XXX) XXX-XXXX

Owner/General Contractor Signature: David Nielsen Date: 10/29/2019

12. Discharge Information

Does your project/site discharge storm water into a Municipal Separate Storm Sewer System (MS4)?

Yes No

Municipal Storm Drain System receiving the discharge from the construction project: [Click here to enter text.](#)

Receiving Waters (look up

<https://deg.utah.gov/ProgramsServices/programs/water/standards/WQmap.htm> to identify your receiving water body)

Enter the name(s) of the first surface water(s) that receives storm water 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. Pine River
2. [Click here to enter name of receiving waters.](#)
3. [Click here to enter name of receiving waters.](#)
4. [Click here to enter name of receiving waters.](#)

Impaired Waters (refer to <http://mapserv.utah.gov/surfacewaterquality/> 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?	Pollutant(s) causing the impairment	Has a TMDL been completed?	Pollutant(s) for which there is a TMDL
Click here to enter text.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Click here to enter text.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Click here to enter text.

13. Certification and Notification

I, Dave Nielsen, 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.

Type text here

X *David Nielsen*

Construction Operator:

This SWPPP should be signed and certified by the construction operator(s).

SWPPP Appendices

Ensure the following documentation is attached to the SWPPP:

Appendix A: SWPPP Site Maps

Appendix B: Common Plan Permit

Appendix C: Notice of Intent (NOI), and a copy of the NOT form unless you plan to terminate the permit on-line

Appendix D: Daily Site Check Log

Appendix E: Inspection Reports and Corrective Actions

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

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

APPENDIX A: SWPPP Site Maps

APPENDIX B: Common Plan Permit

Find the permit on <https://deq.utah.gov/Permits/water/updes/stormwatercon.htm>

APPENDIX C: Notice of Intent and Termination.

Find the Notice of Termination Form at

<https://deg.utah.gov/Permits/water/updes/stormwatercon.htm>

However, termination of the project can be done on-line at <https://secure.utah.gov/stormwater>

(You must log in using the same username that you applied for your NOI with. If you completed a paper NOI you must complete a paper NOT.)

APPENDIX D: Daily Self-Inspection Log (permit part 3.2.2).

APPENDIX E: Inspection Reports

APPENDIX F: Additional Information

For permits such as local permits, dewatering, stream alteration, wetland, and out of date SWPPP documents, delegation of authority forms, etc.

Delegation of Authority

I, Glade Jones, hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including the Common Plan Permit, at the Ashdown Residence construction site. The designee is authorized to sign any reports, stormwater pollution prevention plans and all other documents required by the permit.

Field Manager (name of person or position)

IMPRINT BUILDERS (company)

952 S 250 E (address)

Farmington, UT 84025 (city, state, zip)

801.292.2223 (phone)

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in UTRH96715_(Reference State Permit), and that the designee above meets the definition of a “duly authorized representative” as set forth in UTRH96715 (Reference State Permit).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information 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.

Name: Dave Nielsen

Company: IMPRINT BUILDERS

Title: General Manager

Signature: *David Nielsen*

Date: 10/10/19

APPENDIX G: BMP Specifications and Details

Label BMPs to match the sections identified in this document.

BMP - Materials Storage

BMP - Portable Toilet

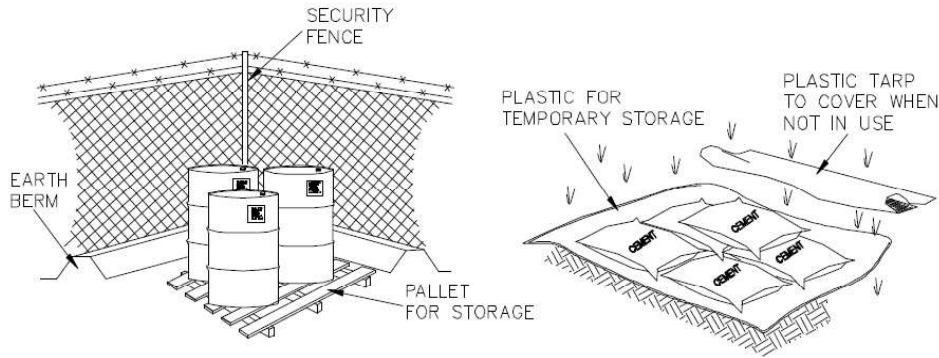
BMP - Silt Barrier

BMP - Track out Pad

BMP - Concrete Washout

BMP: Materials Storage

MS



- ▶ CONTROLLED STORAGE LOCATION
- ▶ BARRIER AROUND PERIMETER
- ▶ ELEVATE CONTAINERS OFF GROUND
- ▶ COVER WHEN NOT IN USE

OBJECTIVES

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

TARGETED POLLUTANTS

H M L

- Sediment
- Nutrients
- Heavy Metals
- Toxic Materials
- Oil & Grease
- Floatable Materials
- Bacteria & Viruses
- Other Waste

IMPLEMENTATION REQUIREMENTS

H M L

- Capital Costs
- O&M Costs
- Maintenance
- Training
- Staffing
- Administrative

H = High M = Medium L = Low

DESCRIPTION:

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:

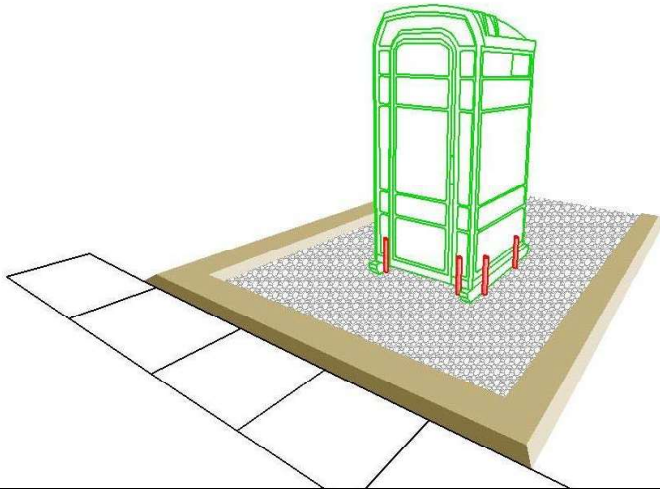
- Does not prevent contamination due to mishandling of products
- Spill Prevention and Response Plan still required
- Only effective if materials are actively stored in controlled location

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



1500 East 650 North
Fruit Heights, UT 84037



OBJECTIVES

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

TARGETED POLLUTANTS

H M L

- Sediment
- Nutrients
- Heavy Metals
- Toxic Materials
- Oil & Grease
- Floatable Materials
- Bacteria & Viruses
- Other Waste

IMPLEMENTATION REQUIREMENTS

H M L

- Capital Costs
- O&M Costs
- Maintenance
- Training
- Staffing
- Administrative

H = High M = Medium L = Low

DESCRIPTION:

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 a 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 Sheet), control for spill / leak protection.
- Anchor the portable toilet to prevent tipping

LIMITATIONS:

No limitations

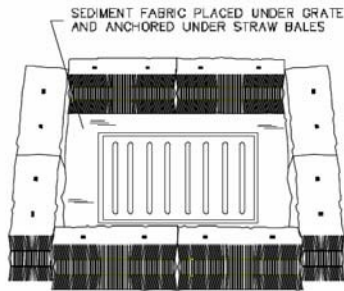
MAINTENANCE:

- 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

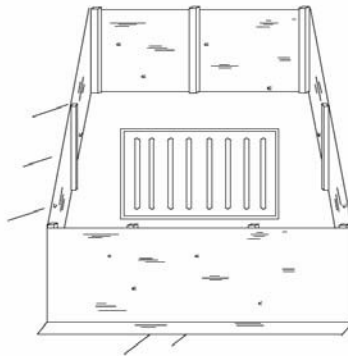


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STRAW BALE BARRIER



SILT FENCE



OBJECTIVES

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

TARGETED POLLUTANTS

H M L

- Sediment
- Nutrients
- Heavy Metals
- Toxic Materials
- Oil & Grease
- Floatable Materials
- Bacteria & Viruses
- Other Waste

IMPLEMENTATION REQUIREMENTS

H M L

- Capital Costs
- O&M Costs
- Maintenance
- Training
- Staffing
- Administrative

H = High M = Medium L = Low

DESCRIPTION:

Sediment barrier erected around storm drain inlet.

APPLICATION:

- Construct at storm drainage inlets located downgradient of areas to be disturbed by construction (for inlets in paved areas see other information sheets for inlet protection)

INSTALLATION / APPLICATION CRITERIA:

- Provide upgradient sediment controls, such as silt fence during construction of inlet
- When construction of inlet is complete, erect straw bale barrier or silt fence surrounding perimeter of inlet. Follow instructions and guidelines on individual BMP information sheets for straw bale barrier and silt fence construction

LIMITATIONS:

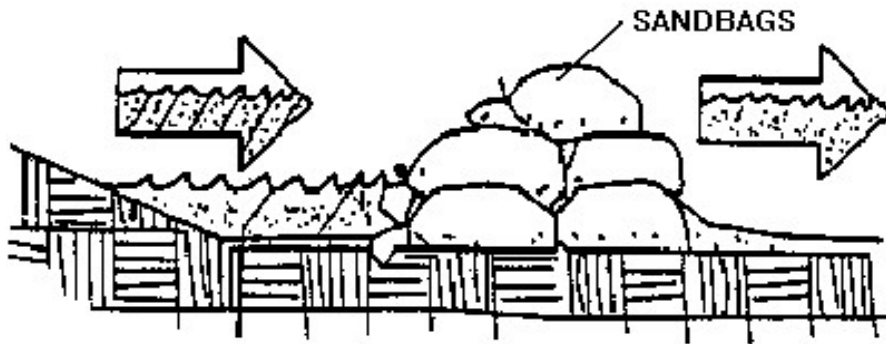
- Recommended maximum contributing drainage area of one acre
- Limited to inlets located in open unpaved areas
- Requires shallow slopes adjacent to inlet

MAINTENANCE:

- Inspect inlet protection following storm event and at a minimum of once every two weeks
- Remove accumulated sediment when it reaches 4" in depth
- Repair or realign barrier/fence as needed
- Look for bypassing or undercutting and recompact soil around barrier/fence as required



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IMPLEMENTATION REQUIREMENTS

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DESCRIPTION:

Stacking sand bags along a level contour creates a barrier which detains sediment - laden water, ponding water upstream of the barrier and promoting sedimentation

APPLICATION:

- Along the perimeter of the site
- May be used in drainage areas up to 5 acres
- Along streams and channels
- Across swales with small catchments
- Around temporary spoil areas
- Below the toe of a cleared slope

INSTALLATION / APPLICATION CRITERIA:

- Install along a level contour
- Base of sand bag barrier should be at least 48" wide
- Height of sand bag barrier should be at least 18" high
- 4" PVC pipe may be installed between the top layer of sand bags to drain large flood flows
- Provide area behind barrier for runoff to pond and sediment to settle
- Place below the toe of a slope
- UV resistant bags should be used

LIMITATIONS:

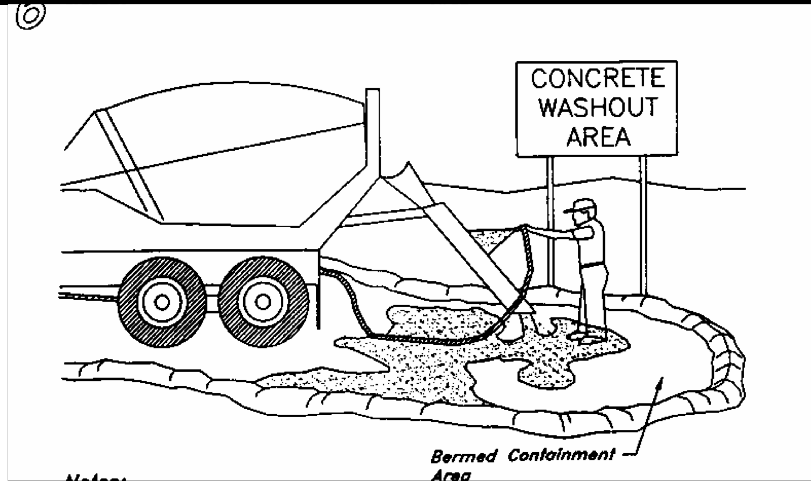
- Sand bags are more expensive than other barriers, but also more durable
- Burlap should not be used

MAINTENANCE:

- Inspect after each rain and a minimum of once every two weeks
- Reshape or replace damaged sand bags immediately
- Remove buildup of sediment



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DESCRIPTION:

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.

APPLICATION:

This technique is applicable to all types of sites

INSTALLATION / APPLICATION CRITERIA:

- Store dry materials under cover, away from drainage areas
- Minimize excess mixing of fresh concrete, mortar or cement on site
- 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 (6" tall X 6' wide)
- Train employees and subcontractors in proper concrete waste management

LIMITATIONS:

- Off-site washout or 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 of hardened concrete on a regular basis

OBJECTIVES

- Housekeeping Practices
- Contain Waste
- Minimize Disturbed Areas
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TARGETED POLLUTANTS

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IMPLEMENTATION REQUIREMENTS

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Below are links to various Construction Storm Water BMP Manuals for reference.

Salt Lake County

http://slco.org/uploadedFiles/depot/publicWorks/engineering/final_bmp_constructi.pdf

BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES

Davis County

http://www.daviscountyutah.gov/docs/librariesprovider20/default-document-library/stormwater-best-management-practices.pdf?sfvrsn=c9cd4053_2

A Guide to Stormwater Best Management Practices

Nevada DOT

<https://www.nevadadot.com/home/showdocument?id=9417>

Stormwater Quality Manuals: Construction Site Best Management Practices (BMPs) Manual

Caltrans

<http://www.dot.ca.gov/hq/construc/stormwater/CSBMP-May-2017-Final.pdf>

Construction Site Best Management Practices (BMP) Manual

Oregon

<http://www.oregon.gov/deq/FilterPermitsDocs/BMPManual.pdf>

Construction Stormwater Best Management Practices Manual

Los Angeles

<http://dpw.lacounty.gov/cons/specs/BMPManual.pdf>

Construction Site Best Management Practices (BMPs) Manual

Maricopa County (Arizona)

<https://www.maricopa.gov/DocumentCenter/View/2368/2015-03-Drainage-Design-Manual-for-Maricopa-County-Volume-III-Erosion-pdf>

Drainage Design Manual for Maricopa County (Erosion Control)

Minnesota

<https://www.pca.state.mn.us/sites/default/files/wq-strm2-09.pdf>

Stormwater Compliance Assistance Toolkit for Small Construction Operators