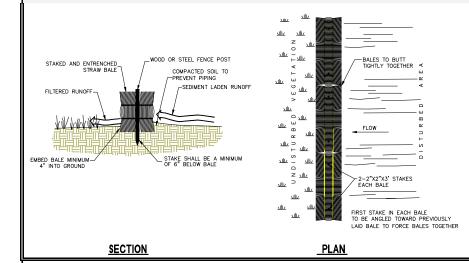
# BMP: Straw Bale Barrier



## OBJECTIVES

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

### DESCRIPTION:

Temporary sediment barrier consisting of a row of entrenched and anchored straw bales.

### **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.

### INSTALLATION/APPLICATION CRITERIA:

- Excavate a 4-inch minimum deep trench along contour line, i.e. parallel to slope, removing all grass and other material that may allow underflow.
- Place bales in trench with ends tightly abutting, fill any gaps by wedging loose straw into openings.
- Anchor each bale with 2 stakes driven flush with the top of the bale.
- Backfill around bale and compact to prevent piping, backfill on uphill side to be built up 4-inches above ground at the barrier.

### LIMITATIONS:

- Recommended maximum area of 0.5 acre per 100 feet of barrier
- Recommended maximum upgradient slope length of 150 feet
- Recommended maximum uphill grade of 2:1 (50%)

### **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.
- Realign bales as necessary to provide continuous barrier and fill gaps.
- Recompact soil around barrier as necessary to prevent piping.

# PIONEERING UTAH'S FUTURE

Adapted from Salt lake county BMP FACT Sheet

### TARGETED POLLUTANTS

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

### **IMPLEMENTATION REQUIREMENTS**

Capital Costs
O&M Costs
Maintenance
Training

■ High 🗵 Medium 🗆 Low

**ES** 

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