

# Site Inspection Report

## Erosion and Sedimentation Inspection Report

Maintain Reports on-site

<b>Site:</b>	<b>Date:</b>	<b>Time:</b>
<b>Inspector:</b>	<b>Accompanied By:</b>	
<b>Stage of Construction:</b>		
<b>Site:</b>		
<b>Observation:</b>		
<b>Recommendations:</b>		
<b>Contractors's Corrective Action (and Date):</b>		
<b>Site:</b>		
<b>Observation:</b>		
<b>Recommendations:</b>		
<b>Contractors's Corrective Action (and Date):</b> _____		





# Stormwater Monitoring Records

Month \_\_\_\_\_: Year \_\_\_\_\_  
 Submit to EPD by 15th of Following Month

Sheet \_\_\_\_\_ of \_\_\_\_\_

Project Name: \_\_\_\_\_ Project Location: \_\_\_\_\_

Date Sampled	Rainfall Amount, Inches	Exact Location of Samples	Time Sampled	Sampling Technique Manual or Automatic	Sampled By	Date Analysis	Time Analysis	Analyzed By	Analytical Method	Results (NTU)

Sample sheet for requirements under the EPD NPDES Construction Permit for sales between 1 and 250 acres

"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 gather and evaluate the information submitted. Based on my inquiry of the persons directly responsible for gathering the information, the information 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."

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Date



# Daily Inspection Report

*Inspection performed by qualified personnel each day construction activity occurs on-site*

Project Information	
Date:	Project Name:
Project Location:	
Inspection Observations	
Rainfall within past 24 hours (inches):	Is rainfall greater than .5"? Inspection Required <input type="checkbox"/>
Inspection Observations	
Petroleum Product Storage Areas: Are all of the temporary and permanent controls contained in Plan in place? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, describe the location(s) of deficiencies and corrective actions that must be taken.	
Vehicle Entrances and Exits: Is there tracking of sediment from locations where vehicles enter and leave the project? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe the location(s) and the corrective actions that must be taken.	
Other Observations	
Is an Erosion, Sedimentation and Pollution Control Plan revision required? <input type="checkbox"/> Yes <input type="checkbox"/> No      Date of revision:	
Corrective Actions and Date:	

\_\_\_\_\_  
Signature of Qualified Personnel

\_\_\_\_\_  
Printed Name of Qualified Personnel

# Weekly Inspection Report

*Inspection performed by qualified personnel at least once every seven calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater*

<b>Project Information</b>	
Date:	Project Name:
Project Location:	
Name of Inspector:	
<b>Inspection Event</b>	
Regular weekly inspection <input type="checkbox"/>	Inspection within 24 hours of 0.5" storm event <input type="checkbox"/>
<b>Inspection Observations</b>	
<b>Disturbed areas that have not undergone final stabilization:</b> Are all of the temporary and permanent controls contained in Plan in place and properly maintained? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, describe the location(s) of deficiencies and corrective actions that must be taken.	
Corrective Action Taken and Date:	
<b>Material storage areas exposed to precipitation:</b> Are all of the temporary and permanent controls contained in Plan in place and properly maintained? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, describe the location(s) of deficiencies and corrective actions that must be taken.	
Corrective Action Taken and Date:	
<b>Discharge locations or points.</b> Are erosion control measures preventing impacts to receiving waters? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, describe observations:	

**Structural control measures:**

Are all of the temporary and permanent controls contained in Plan in place and properly maintained?  Yes  No  
If no, describe the location(s) of deficiencies and corrective actions that must be taken.

Control Measures	Location	Deficiency	Date Corrected

Other observations:

**Is an Erosion, Sedimentation and  
Pollution Control Plan revision required?**  Yes  No **Date of revision:**

\_\_\_\_\_  
Signature of Qualified Personnel

\_\_\_\_\_  
Printed Name of Qualified Personnel



# Monthly Inspection Report

*Inspection performed by qualified personnel at least once per month*

Project Information	
Date:	Project Name:
Project Location:	
Inspection Observations	
Rainfall within past 24 hours (inches):	Is rainfall greater than .5"? Inspection Required <input type="checkbox"/>
Inspection Observations	
Areas that have undergone final stabilization: Are all permanent stabilization controls contained in Plan in place? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, describe the location(s) of deficiencies and corrective actions that must be taken.	
Other observations: Are pollutants entering the drainage system or receiving waters? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe the location(s) and the corrective actions that must be taken.  Are all erosion and sediment control measures operating properly? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, describe the location(s) and the corrective actions that must be taken.	
Other Observations	
Is an Erosion, Sedimentation and Pollution Control Plan revision required? <input type="checkbox"/> Yes <input type="checkbox"/> No      Date of revision:	
Corrective Actions and Date:	

\_\_\_\_\_  
Signature of Qualified Personnel

\_\_\_\_\_  
Printed Name of Qualified Personnel

# Construction Checklist of "BMPs" And Minimum Requirements

Project Name: File No. \_\_\_\_\_

Inspection Date: \_\_\_\_\_ Time: \_\_\_\_\_ Inspected by: \_\_\_\_\_

## Stage of Construction

\_\_\_ Pre-Construction Phase

\_\_\_ Construction Phase

\_\_\_ Building Phase

\_\_\_ Final Stabilization

<b>Cd Check Dam</b>		
Minimum Requirement	Passed	Failed
CENTER: 9 inches lower than outer edges.		
SIDE SLOPES: 2.1 or flatter		
SPACING: Toe of upstream dam is at same elevation as the top of the downstream dam.		
GEOTEXTILE: Placed between the rock and its soil foundation.		
MAINTENANCE: Sediment removed when depth reaches 1/2 the original dam height. Dam removed and area stabilized when useful life has expired.		

**Ch Channel Stabilization**

Minimum Requirement	Passed	Failed
INSTALLATION: Channel lining installed immediately after grading and vegetate all bare areas.		
RIPRAP LINING: Graded to 1.5:1 or less. A filter blanket, at least 6" thick, of sand, gravel, and/or geotextile material should be between soil and riprap.		
OUTLET: Adequate outlet for free flow of water from flood plains into channel.		
CLEARING: Objectionable materials removed from channel. As many trees preserved, as possible.		
BUFFERS: Buffers preserved by clearing for spoil placement on one side of channel only. Buffers reestablished with appropriate vegetation.		
MAINTENANCE: Inspected periodically and necessary repairs made immediately.		

**Co Construction Exit**

Minimum Requirement	Passed	Failed
AGGREGATE SIZE: 1.5 to 3.5 inches		
PAD THICKNESS: 6-inch minimum.		
PAD WIDTH: 20 foot minimum.		
PAD LENGTH: 50 feet minimum.		
LOCATION: At all entrance/exit points.		
GEOTEXTILE: Placed full length and width of the entrance/exit.		
MAINTENANCE: Periodic top dressing with 1.5 to 3.5 inch stone as conditions demand.		

**Cr Construction Road Stabilization**

Minimum Requirement	Passed	Failed
AGGREGATE SIZE: 1.5 to 3.5 inches.		
PAD THICKNESS: 8-10-inches.		
PAD WIDTH: 14 feet minimum.		
MAINTENANCE: Periodic top dressing with 1.5 to 3.5 inch stone as conditions demand.		

**Dc Stream Diversion Channel**

Minimum Requirement	Passed	Failed
SIZE: Channel width should be a minimum of 6 feet with side slopes no steeper than 2:1.		
LINING: The liner should consist of Geotextile (Dc-B) or class I riprap (Dc-C).		
MAINTENANCE: Inspected daily for construction material positioning.		

**Di Diversion**

Minimum Requirement	Passed	Failed
SITE PREPARATION: Trees, brush, stumps and other objectionable material have been removed.		
FILLS: All fills compacted. Unneeded excavated material disposed of and stabilized. Ridge should be at least 10 feet wide. Add 10% to height for settlement.		
STABILIZATION: Channel outlets require adequate vegetation, riprap, or pavement.		
MAINTENANCE: Inspected frequently and after each rainfall with necessary repairs made immediately		

**Dn Downstream Structure Dn2**

Minimum Requirement	Passed	Failed
LOCATION: On undisturbed soil or well-compacted fill.		
OUTLET: Stabilized with rock riprap.		
PIPE: Heavy-duty flexible tubing staked at 10-foot intervals (Temporary Structure Dn1 ). Joints well-connected and watertight.		
MAINTENANCE: Checked after every rainfall with necessary repairs made promptly. Temporary structure removed when no longer needed. Exposed areas stabilized.		

**Fr Filter Ring**

Minimum Requirement	Passed	Failed
SIZE: At inlets with diameters less than 12 inches, the stone size should be 3-5 inches.		
SIZE: At inlets with diameters greater than 12 inches, the stone size should be 10-15 inches.		
HEIGHT: The filter ring should have a minimum height of 2 feet from grade.		
MAINTENANCE: The ring should be kept clear of trash and debris, and the sediment should be removed when one-half full.		

**Ga Gabion**

Minimum Requirement	Passed	Failed
DESIGN: Performed by a qualified professional familiar with the use of gabions.		
MAINTENANCE: Periodically inspected for signs of undercutting or excessive erosion.		

**Gr** **Grade Stabilization Structure**

Minimum Requirement	Passed	Failed
MATERIALS: Constructed of concrete, rock, masonry, steel, aluminum, or treated wood.		
OUTLET: Adequate, stable outlet for discharges.		
VEGETATION: On all disturbed areas immediately.		
Maintenance: Periodically inspected for signs of undercutting or excessive erosion.		

**Lv** **Level Spreader**

Minimum Requirement	Passed	Failed
GRADE: No greater than 1 % for the last 15 feet of the dike or diversion.		
LENGTH: Determined by plan preparer from estimated storm flow.		
OUTLET: Discharges onto an undisturbed stabilized area to create uniform sheet flow.		
MAINTENANCE: No blockages at point of discharge.		

**Mb** **Erosion Control Matting and Blankets**

Minimum Requirement	Passed	Failed
INSTALLATION: According to manufacturer's specifications.		
MAINTENANCE: check for slumping or failure of material.		

**Rd** **Rock Filter Dam**

<b>Minimum Requirement</b>	<b>Passed</b>	<b>Failed</b>
HEIGHT: Not higher than channel banks with dam center 6 inches lower than outer edges of dam.		
SIDE SLOPES: 2:1 or flatter.		
LOCATION: Located so that it will not cause flooding of upstream property. Minimum Requirement Passed Failed		
ROCK SIZE: Determined by the design criteria established in the riprap section (Appendix C) of the E&SC Manual.		
TOP WIDTH: Should be no less than 6 feet.		
MAINTENANCE: Sediment removed when it reaches a depth of 1/2 the original height of dam. Dam removed at completion of its useful life.		

**Re** **Retaining Wall**

<b>Minimum Requirement</b>	<b>Passed</b>	<b>Failed</b>
SPECIFIC DESIGN: Performed by capable design engineer or architect.		
MAINTENANCE: Periodically inspected for signs of undercutting or excessive erosion.		

**Rt** **Retrofitting**

Minimum Requirement	Passed	Failed
HEIGHT: 1/2 the height of the stormwater management structure.		
HALF-ROUND PIPE: Diameter should be 1.5 times the principal pipe outlet diameter.		
SLOTTED BOARD DAM: Posts minimum size of 4"x4". 0.5 to 1 inch spacing between boards.		
STONE SIZE: 3 to 4 inch stone.		
POND INLET: Sediment entry point should be at opposite end of basin from outlet. If not, baffles should be installed.		
MAINTENANCE: Trash and debris hindering drainage has been removed. Sediment removed when structure is 1/3 full. Structure removed when project is stabilized.		

**Sd1** **Sediment Barrier**

Minimum Requirement	Passed	Failed
LOCATION: Intended for areas where sheet flow occurs. Not installed in areas of concentrated flow. Installed on contour.		
BRUSH: Windrowed on the contour and at the lower perimeter of site. Compacted, if necessary. Filter fabric added, if necessary, to increase efficiency.		
SILT FENCE: Verify fabric and post types. Entrenched 4-6" depending on fence type. Posts spaced at a maximum of 6'.		
HAYBALES: Embedded to a depth of 4". Secured with stakes or bars driven through bales.		
SAND BAGS: Flow between and beneath sandbags minimized. If height exceeds two (2) bags, staked with steel rods.		
MAINTENANCE: Sediment removed at 1/2 barrier capacity and disturbed area stabilized. Barrier removed at end of useful life.		



**Sd2 Inlet Sediment Trap**

Minimum Requirement	Passed	Failed
BLOCK: Blocks wrapped with fabric with #57 wash stone placed on front.		
GRAVEL: Minimum stone diameter of 3 inches on inlet side and #57 stone on opposite side at a thickness of 1 foot.		
FRAME AND FABRIC: Sturdy frame with fabric entrenched and pulled taut.		
MAINTENANCE: Sediment removed when 2/3 fence capacity is reached		

**Sd3 Temporary Sediment Basin**

Minimum Requirement	Passed	Failed
LOCATION: Not located in a live stream.		
PRINCIPAL SPILLWAY PIPE: Pipe extended beyond downstream toe of the fill. All pipe joints watertight.		
RISER: 1/2 inch perforations 3 inches apart covered with two feet of 1/2 to 3/4 inch stone. Trash rack installed.		
EMERGENCY SPILLWAY: installed in undisturbed soil. Minimum bottom width of 8 feet. Stabilized with vegetation, riprap, or concrete.		
MAINTENANCE: All damages to structure repaired before day's end. Sediment removed when storage capacity has been reduced by 1/3.		

**Sr Temporary Stream Crossing**

Minimum Requirement	Passed	Failed
SIZE: Large enough to convey the full bank flow of the stream without appreciably altering the stream flow characteristics.		
OVERFLOW PROTECTION: Elevated crossings, crown fills over pipes, diversions or dikes.		
MAINTENANCE: Inspected after every rainfall or at least once a week with repairs made immediately.		

**St Storm Drain Outlet Protection**

Minimum Requirement	Passed	Failed
ALIGNMENT: Contains no bends and aligns with receiving channel.		
SUBGRADE: Constructed on 0.0% grade. Invert and outlet at same elevation as bottom of receiving channel. Compacted fill required.		
FILTER: Gravel filter or geotextile installed between riprap and subgrade. Gravel filter should be properly graded and geotextiles installed in accordance with manufacturer's recommendations		
MINIMUM DIMENSIONS: Thickness = 3x's max. rock diameter; Width = 3x's outlet pipe diameter; Length = 6x's outlet pipe diameter.		
MAINTENANCE: inspect riprap outlet structures for any dislodged stones causing erosion. Repairs made immediately.		

**Sr Surface Roughening**

Minimum Requirement	Passed	Failed
SLOPES STEEPER THAN 3:1: Roughened by either stair-step grading, grooving, furrowing, or tracking. Areas to be mowed should have small furrows only.		
SLOPES FLATTER THAN 3:1: Soils loosened to a depth of 2 to 4 inches.		
STAIR-STEPPING: Stair-steps should have maximum width of 40"-50" and a maximum depth of 30"-40".		
GROOVING: Installed by equipment operating on the contour (across the slope). Maximum top width of 12"-15" and minimum depth of 3 inches for grooves.		
TRACKING: Tracked equipment operated up and down slope. Heavy clay soils may not track well.		
VEGETATION: Seed, mulch, lime, and fertilizer applied immediately after roughening.		

**Topsoiling**

Minimum Requirement	Passed	Failed
STRIPPING: Confined to the immediate construction area. Only friable, loamy topsoil stripped. Objectionable rock and roots removed.		
STOCKPILES: Vegetated and mulched and located in areas not obstructing natural drainage.		
SPREADING: Areas prepared by tilling or scarifying. Lime and fertilizer added as required. Topsoil handled when it is not too wet. A 5 inch depth of loose soil is desirable.		
VEGETATION: Vegetation and mulch applied immediately.		

**Vegetated Waterway**

Minimum Requirement	Passed	Failed
CHANNEL: Free of all trees, rocks, brush, and other debris. Shaped to desired cross-section. Protected from erosion during establishment by diversions, geotextiles, etc.		
FILL MATERIAL: Compacted. Excess fill material disposed of in a suitable manner and vegetated.		
VEGETATION: Seed, mulch, lime and fertilizer applied immediately.		

**Buffer Zone**

Minimum Requirement	Passed	Failed
WIDTH: Minimum of 25 feet on all state waters; 50 feet on streams designated as "Trout Waters" unless variance is obtained. See Law for specifics.		
MAINTENANCE: Buffers protected from equipment encroachment. Sediment removed when effectiveness is lost.		

**Cs Coastal Dune Stabilization**

Minimum Requirement	Passed	Failed
LOCATION: 100 feet from mean high tide line.		
POSTS: Minimum length of 7' with minimum diameter of three inches; slats spaced approximately 1 1/4 inches apart.		
SPACING: Two or more parallel 4-foot high fences spaced from 30 to 40 feet apart.		
PLACEMENT: 30-foot sections of fence installed perpendicular to the prevailing winds.		
VEGETATION: Installed immediately following dune development. Mulch applied and irrigated, if necessary.		
PRESERVATION: Dunes protected from human and vehicular traffic.		

**Ds1 Disturbed Area Stabilization**  
*(With Mulching Only)*

Minimum Requirement	Passed	Failed
SOIL PREPARATION: Loosed to a depth of 3", if possible.		
ANCHORING: Mulch anchored with a "packer disk" or with an emulsifier.		
EMULSIFIER MIXTURE: 100 gallons of emulsifier per ton of mulch. MATERIALS AND RELATED DEPTHS: Straw or hay - 2" to 4" depth. Pine needles - 4" to 6" depth. Wood chips, sawdust - 2" to 3" depth. Shredded leaves - 2" to 3" depth.		
COMMERCIAL MATTING OR NETTING: Followed manufacturer's specifications.		



**Disturbed Area Stabilization**  
(With Temporary Seeding)

Minimum Requirement	Passed	Failed
SEEDBED PREPARATION: Soil should be loose and friable.		
LIME AND FERTILIZER: Fertilizer may be needed when low fertility conditions exist (500-700 pounds of 10-10-10 per acre).		
SEEDING: Vegetation selected is suitable to the area and season of the year.		
GERMINATION: Tag on bag should be checked and a simple germination test should preclude plantings.		
MULCH: Placed after seeding to retain moisture and protect seed.		



**Disturbed Area Stabilization**  
(With Permanent Vegetation)

Minimum Requirement	Passed	Failed
SEEDBED PREPARATION: Needed when the soil has been sealed from crusting or when conventional seeding is used.		
LIME AND FERTILIZER: Rates of 1-2 tons of lime per acre with fertilizer rates following Field Manual recommendations.		
SEEDING: Refer to appropriate planting tables. Companion crops may be required for areas needing quick cover.		
INOCULANTS: All legume seed should be inoculated and careful attention given to its handling.		
MULCH: Dry straw applied at a rate of 2 tons per acre, and dry hay at a rate of 2 1/2 tons per acre. 75% of soil surface covered.		
MULCH ANCHORING: 100 gallons emulsified asphalt per ton of mulch, "packer disk," or synthetic netting.		
MOWING: 6" minimum height maintained.		
FUTURE FERTILIZER RATES: Refer to the Manual for second year fertilizer rates.		

**Ds4**

**Disturbed Area Stabilization**  
*(With Sodding)*

<b>Minimum Requirement</b>	<b>Passed</b>	<b>Failed</b>
SURFACE: Surface at final grade. Surface clear of trash and other objects larger than 1 inch.		
INSTALLATION: Sod applied to soil surface only (not to frozen or gravel-type soils). Certified sod cut used within 36 hours.		
LIME AND FERTILIZER: Based on soil test. Applied according to recommendations.		
ANCHORING: Anchored with pins if slopes are steeper than 3:1.		
IRRIGATION: Rainfall supplemented with irrigation, if necessary.		

**Du**

**Dust Control**

<b>Minimum Requirement</b>	<b>Passed</b>	<b>Failed</b>
METHODS: Mulch, vegetation or tackifiers applied or surface sprayed with water until it is thoroughly wet.		

**Sb**

**Streambank Stabilization**  
*(Using Permanent Vegetation)*

<b>Minimum Requirement</b>	<b>Passed</b>	<b>Failed</b>
DESIGN: Designed and installed by professionals familiar with process.		
MATERIALS: None used that could be poisonous to fish and aquatic life (i.e. asphalt, wood treated with creosote)		
RUNOFF: Intensive runoff diverted from the area being treated.		
SIDE SLOPE: 2:1 or flatter. Refer to Guidelines for recommended slope lengths.		
WORK SEQUENCE: Work starts upstream at a stable point along the bank.		
STAKE HEALTH: Cut with a saw. Planted same day as prepared. Buds upward. Split, stripped, and mushroomed cuttings replaced.		
STAKE INSTALLATION: Begins at water's edge and works up the bank.		
VEGETATION: Native trees and shrubs. Failures fixed at once with structural materials or new plants, mulching if necessary.		
INSPECTION: Checked regularly for wash-outs, undercutting, unhealthy vegetation, especially after heavy rains. Make necessary repairs immediately.		

**Tb**

**Tackifiers and Binders**

<b>Minimum Requirement</b>	<b>Passed</b>	<b>Failed</b>
SPECIFICATIONS: Tackifiers and Binders are used to anchor wood cellulose, wood pulp fiber, and other mulch materials applied with hydroseeding equipment.		

ACTIONS TAKEN

\_\_\_ Verbal Warning Issued Date: \_\_\_\_\_

\_\_\_ Stop Work Order Issued Date: \_\_\_\_\_

\_\_\_ Citation Issued Date: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_