

# **RECAT Questionnaire**



CDOT Erosion Control Advisory Team Questionnaire

**EROSION CONTROL ADVISORY TEAM QUESTIONNAIRE**

PROJECT NAME: \_\_\_\_\_ REGION: \_\_

PROJECT NUMBER: \_\_\_\_\_ DATE: \_\_\_\_\_

PROJECT ENGINEER: \_\_\_\_\_

RESIDENT ENGINEER: \_\_\_\_\_

PROGRAM MANAGER: \_\_\_\_\_

Receiving Water Name	Distance to project (0=intersect)

Wetland Impacts: yes\_\_ no\_\_

Stream Impacts: yes\_\_ no\_\_

ECAT MEMBERS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Construction Office Interview:**

1. Stormwater Management Plan (SWMP) Review:

- a. Run off coef pre-construction\_\_ post construction\_\_
- b. Existing soil data:\_\_\_\_\_
- c. Acres of disturbance as shown in SWMP \_\_\_\_\_
- d. Stabilization notes included in plans e.g. phased seeding and mulching? Yes\_\_ No\_\_
- e. BMP itemized? Yes\_\_ No\_\_
- f. Plan sheets display BMP location? Yes\_\_ No\_\_
- g. Force account erosion control included? Yes\_\_ No\_\_
- h. Sensitive environments protected with protective fencing? Yes\_\_ No\_\_
- i. Sensitive environments shown in the SWMP e.g. wetlands, riparian, protection habitat? Yes\_\_ No\_\_ NA\_\_

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j. See item 12 (field inspection report) and check erosion control/water quality measures included in the plans.

2. Was construction involved in the design or review of the SWMP for the project? Yes \_\_\_ No \_\_\_

3. Are the erosion control details and plans clear and understandable? Yes \_\_\_ No \_\_\_

4. Are erosion issues addressed at weekly meetings/is the ECS in attendance at scheduling meetings?  
Yes \_\_\_ No \_\_\_

5. Are changes to the SWMP documented e.g. via diaries, form 1176 erosion control reports or in the plans? Yes \_\_\_ No \_\_\_

6. Are the erosion control pay item quantities adequate? Yes \_\_\_ No \_\_\_

7. Are the erosion control and sedimentation reports completed and on site? Yes \_\_\_ No

8. Is the ECS performing per the specification's requirements? Yes \_\_\_ No \_\_\_

9. Where changes made to the SWMP during construction approved and noted on the plans?  
Yes \_\_\_ No \_\_\_

10. Are you aware of the 208 disincentives spec? Yes \_\_\_ No \_\_\_

Has the 208 disincentives been used? Yes \_\_\_ No \_\_\_ Successfully? Yes \_\_\_ No

Other enforcement: 105 memo \_\_, withhold estimate \_\_, CDPHE \_\_, CDOT maint forces \_\_

11. What is the method of concrete washout and saw water removal? \_\_\_\_\_  
\_\_\_\_\_

12. Is disposal site approved? Yes \_\_\_ No \_\_\_

13. Do we need to include a sediment removal and disposal pay item? Yes \_\_\_ No \_\_\_

How should we pay for it? \_\_\_\_\_  
\_\_\_\_\_

14. What beneficial erosion control and water quality information originating from this project, can we apply to other CDOT projects?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# **RECAT Field Rating Form**



Colorado Department of Transportation				Date of inspection:				
RECAT Rating Form				Region:				
Project Name:								
Project Number:			Project Code:					
ECAT Team Members:								
BMP Type	Importance Factor	"X" if in SWMP	Implementation Score				Comments on Implementation	Deficiencies of Effectiveness
<b>EROSION CONTROL</b>								
Seeding	2		100%	≥50%	<50%	0%	NA	N M I A
Mulching	2		100%	≥50%	<50%	0%	NA	N M I A
Embankment Protector	1.5		100%	≥50%	<50%	0%	NA	N M I A
Erosion Control Blankets	1.5		100%	≥50%	<50%	0%	NA	N M I A
Check Dams	1		100%	≥50%	<50%	0%	NA	N M I A
Diversion	1		100%	≥50%	<50%	0%	NA	N M I A
Earth Berms	1		100%	≥50%	<50%	0%	NA	N M I A
Grading Techniques	1		100%	≥50%	<50%	0%	NA	N M I A
Mulch Tackifier	1		100%	≥50%	<50%	0%	NA	N M I A
Outlet Protection	1		100%	≥50%	<50%	0%	NA	N M I A
Sodding	1		100%	≥50%	<50%	0%	NA	N M I A
Soil Binders	1		100%	≥50%	<50%	0%	NA	N M I A
Temporary Drainage Swales	1		100%	≥50%	<50%	0%	NA	N M I A
Turf Reinforcement Mats	1		100%	≥50%	<50%	0%	NA	N M I A
Other:	1		100%	≥50%	<50%	0%	NA	N M I A
Other:	1		100%	≥50%	<50%	0%	NA	N M I A
<b>SEDIMENT CONTROL</b>								
Dewatering Structure	1.5		100%	≥50%	<50%	0%	NA	N M I A
Sediment Trap/Basin	1.5		100%	≥50%	<50%	0%	NA	N M I A
Stabilized Construction Entrance	1.5		100%	≥50%	<50%	0%	NA	N M I A
Brush Barrier	1		100%	≥50%	<50%	0%	NA	N M I A
Erosion Bales	1		100%	≥50%	<50%	0%	NA	N M I A
Inlet Protection	1		100%	≥50%	<50%	0%	NA	N M I A
Mesh/Burlap Socks	1		100%	≥50%	<50%	0%	NA	N M I A
Sandbag Barrier	1		100%	≥50%	<50%	0%	NA	N M I A
Silt Barrier	1		100%	≥50%	<50%	0%	NA	N M I A
Silt Fence	1		100%	≥50%	<50%	0%	NA	N M I A
Other:	1		100%	≥50%	<50%	0%	NA	N M I A
<b>GENERAL POLLUTION PREVENTION</b>								
Concrete Saw Water Containment	2		100%	≥50%	<50%	0%	NA	N M I A

N = Installed, applied and maintained correctly  
M = Maintenance is needed

I = Not installed correctly

Select M, I and/or A as needed.  
A = Not applied correctly

BMP Type	Importance Factor	"X" if in SWMP	Implementation Score	Comments on Implementation	Deficiencies of Effectiveness
Concrete Washout	2		100% ≥50% <50% 0% NA		N M I A
Maintenance and Fueling	1.5		100% ≥50% <50% 0% NA		N M I A
Material Management and Use	1.5		100% ≥50% <50% 0% NA		N M I A
Spill Prevention and Control	1.5		100% ≥50% <50% 0% NA		N M I A
Stockpile Management	1.5		100% ≥50% <50% 0% NA		N M I A
Clear Water Diversion	1		100% ≥50% <50% 0% NA		N M I A
Liquid Waste Management	1		100% ≥50% <50% 0% NA		N M I A
Sanitary and Septic Waste Management	1		100% ≥50% <50% 0% NA		N M I A
Solid Waste	1		100% ≥50% <50% 0% NA		N M I A
Street Sweeping and Vacuuming	1		100% ≥50% <50% 0% NA		N M I A
Temporary Stream Crossing	1		100% ≥50% <50% 0% NA		N M I A
Other	1		100% ≥50% <50% 0% NA		N M I A
Other	1		100% ≥50% <50% 0% NA		N M I A

**INSPECTION, MAINTENANCE AND SWMP MANAGEMENT PROGRAM**

V = Very thorough    M = Mostly thorough    S = Somewhat thorough    N = Not thorough

Inspections occurring at least every 14 calendar days	1.5		100% ≥50% <50% 0% NA		V M S N
Inspections occurring after storm events that result in runoff	1.5		100% ≥50% <50% 0% NA		V M S N
Corrective measures completed within 7 calendar days of inspection.	1.5		100% ≥50% <50% 0% NA		<b>Not Applicable</b>
Inspections occurring at least every 30 calendar days since project completion.	1		100% ≥50% <50% 0% NA		V M S N
Inspection reports retained at the construction project site	1		100% ≥50% <50% 0% NA		<b>Not Applicable</b>
Have changes made to the SWMP been approved and documented	2		100% ≥50% <50% 0% NA		V M S N

**CONSTRUCTION SITE ASSESSMENT**

Construction site perimeter contained.	1		Yes No NA		<b>Not Applicable</b>
Sensitive Environments Protected.	1		Yes No NA		<b>Not Applicable</b>
Is the disturbed area less than 34 acres?	1		Yes No NA		<b>Not Applicable</b>

Notes:

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N = Installed, applied and maintained correctly  
M = Maintenance is needed

I = Not installed correctly

Select M, I and/or A as needed.  
A = Not applied correctly

## Rating Form Instructions

### Basic Information

Enter basic information regarding the project and inspection in the gray cells at the top of the form. This information is necessary for tracking purposes.

### BMP Implementation Score (Column D)

Basis of BMP score is whether they have installed the BMPs required according to the SWMP and/or site conditions. Each BMP is provided a maximum score based on the Importance Factor (1, 1.5 or 2). If BMP is fully implemented the full score is awarded (Importance Factor times 10).

-In the 1st gray column enter an "X" (can be lower case) to indicate the BMP is required by the SWMP or site conditions.

-In the 2nd gray column circle the appropriate percent for which the BMP has been implemented.

100% Implemented	100%
50% or more Implemented	≥50%
less than 50% Implemented	<50%
Required but not Implemented	0*
Required but not applicable	NA

**\*An "X" must be entered in the 1st gray column for worksheet to compute correctly**

### BMP Effectiveness Factor (Column G)

The BMP Implementation Score is scaled according to how well the BMP is installed (according to spec), if it is applied correctly and how well it is being maintained.

-In the 3rd gray column circle the appropriate letter (N, M, I or A) for the Effectiveness Factor based on the definitions of Effective provided below.

N = Nothing is deficient, M = Maintenance is deficient, I = Installation is deficient, and A = Application is deficient

-**Effective** means the BMP is applied and installed correctly and does not need maintenance or repair

Enter N

-**Mostly Effective** means the BMP has two of the above three done correctly

Enter the letter to indicate what is deficient

-**Somewhat Effective** means the BMP has one of the above three done correctly

Enter the two letters to indicate what is deficient

-**Not Effective** means the BMP is not applied or installed correctly and needs maintenance or repair

Enter the three letters to indicate what is deficient

### BMP Score

BMP Score is computed by the worksheet by multiplying the BMP Implementation Score by the Importance Factor and the Effectiveness Factor. The significance of this score is based on the total possible score for that BMP (Implementation score times the Importance Factor)

-BMP Score may be above 10 due to the Importance Factor

-BMPs considered to be more critical to protect water quality were given an Importance Factor that boosts the score for that BMP

### Categorical Score

The Categorical Scores are the scores for Erosion Control, Sediment Control, etc. The Categorical Score is normalized to be between zero and ten. The worksheet calculates this score by dividing the sum of the BMP Scores for all BMPs in a specific category by the total possible score for that category. The total possible score for a category is based on the BMPs required by the SWMP and/or site conditions.

### Project Score

The overall Project Score is computed by the worksheet by averaging the Categorical Scores. Below are the guidelines for assessing the Categorical and Project Scores or Ratings.

A score between:

8 -10	Excellent
6 - 8	Good
4 - 6	Fair
< 4	Poor