Reporting BMPs and Load Reductions For Section 319 And **Matching Centennial** Projects

> Water Quality Program WA Department of Ecology

Why do we have to report?

- EPA requirement for all 319 grant recipients.
- Measure progress on achieving project milestones.
- Demonstrate improvements to water quality by reporting on nonpoint source pollutant load reductions.
- Ecology enters data from the forms into the EPA Grants Reporting and Tracking System Database (GRTS).

Why is reporting required for Centennial Projects?

- Ecology uses Centennial funded projects to meet EPA's 319 match requirements.
- EPA requires the same administrative conditions for matching projects.
- EPA wants to know how state funds are leveraged for nonpoint pollution reduction.
- Therefore, matching projects need to meet the 319 reporting requirements.

Load Reduction Reporting

- Use Ecology's Load Reduction Reporting Form to report Best Management Practices (BMPs) and pollutant load reductions.
- Reporting cycle: January-December
 - Due annually on Jan 15
- At project closeout, report any new BMPs installed (since last report period) and load reductions.

About Reporting BMPs

- Report all BMPs paid for by the grant, implemented in the recent calendar year.
- Pollutant load reductions are modeled using EPA's Spreadsheet Tool for Estimating Pollutant Loads (STEPL).
- Not all BMP types are found in STEPL, so they will not have associated load reduction estimates.
 - Report load reductions if you used another model or have real data.
 - Report the BMP regardless of load reduction capability.

Reporting BMPs

- The following BMPs <u>are</u> in the STEPL model and must have load reduction estimates reported:
 - Filter strips
 - Reduced Tillage Systems (Direct Seed)
 - Streambank stabilization and fencing
 **Riparian buffer plantings should be reported as such
 - Waste Management Systems
 - Waste Storage Facilities
 - Streambank stabilization

Reporting BMPs

BMPs to report with no STEPL load reduction estimates:

- Comprehensive Nutrient Management Plan (CNMP) (units)
- Constructed Wetland (area)
- Heavy Use Area Protection (area and units)
- Invasive Species/Noxious Weed Control (length and area)
- Nutrient Management (area)
- Pet Waste Management (units)
- Residue and Tillage Management, No-Till/ Direct Seed (area)
- Spring Development (units)

- Stream Crossing indicate type such as bridge, hardened crossing, etc. (units)
- Stream Habitat Improvement and Management (length and area)
- Tank/Trough (units)
- Tree/Shrub Establishment (length and area, stems optional)
- Watering Facility (units)
- Wetland Enhancement (area)
- Wetland Restoration (area)
- Windbreak/Shelterbelt Establishment (for livestock protection) (length)

Reporting Highlights

Report load reductions on a 12-digit HUC watershed scale.

Options to determine 12-digit HUCs:

- USGS National Hydrography Dataset (NHD)
- Google Earth
- ArcReader
- ArcGIS

Detailed instructions can be found on the web at <u>http://www.ecy.wa.gov/programs/wq/funding/FundPrgms/NPres.html</u>

12-Digit HUCs: USGS NHD

- <u>http://viewer.nationalmap.gov/viewer/nhd.</u>
 <u>html?p=nhd</u>
- Select Hydrography (NHD) layer.
- Use Search field or just zoom in to project area.
- 12-digit HUCs appear when zoomed in enough (starts at 8-digit then to 12-digit).

USGS NHD Screen Shot



Watershed and Pollutant Information

- <u>Required pollutants (when applicable</u>): phosphorus (lbs/yr), nitrogen (lbs/yr), sediment (tons/yr).
 - These are estimated by the STEPL model, also BOD.
- Others: dissolved oxygen, exotic species, fecal coliform, herbicides, inorganics, temperature, other.
 - You can report measured or modeled reductions on other pollutants if you have them.
- Include WQ Assessment listing ID Number(s) from 303(d) List, if applicable.

Best Management Practices

- List each BMP installed individually and include:
 - Location in latitude and longitude
 - BMP type
 - Length in feet
 - Area in acres or square feet
 - Other units (if applicable)
 - Cost of BMP (Total Eligible Cost)
 - Report on all BMPs installed even if there are no load reductions associated with them.

Legacy Projects (Outside of EAGL)

Microsoft Word Version of Load Reduction Reporting Form

Word Version of Load Reduction Reporting Form

- Make sure you use the most updated Word version that has been posted to the web <u>http://www.ecy.wa.gov/biblio/ecyo70285.html</u>
- Submit to Financial Manager <u>and</u> Project Manager as Word version via email.
- Additional information can be attached to the email when the form is submitted.

Completing the Form

Load Reduction Information

What model was used?

- STEPL is not the required model, but it is the provided model.
- If the reductions were calculated using a different model or from real monitoring data, please indicate on the form and provide an explanation.

Load Reduction Information

What type of Load Reduction Model did you use to calculate your reduction estimates? Typically the EPA's STEPL model found at http://it.tetratech-ffx.com/steplweb/models\$docs.htm is used for Load Reduction estimates of nitrogen, phosphorous, and sediment.

		Watershed 5	Watershed 6	Watershed 7	Watershed 8	
1.	12-Digit HUC(s):					
2.	Pollutant Type:	Pollutant Choices- Other?	Pollutant Choices Other?	Pollutant Choices Other?	Pollutant (hoices Other?	
	Reduction:	Reduction	Reduction	Reduction:	Reduction:	
	Pollutant Type:	Pollutant Choices- Other?	 Pollutant Choices Other? 	Pollutant Choices Other?	Pollutant (hoices Other?	
	Reduction:	Reduction	Reduction	Reduction:	Reduction:	
	Pollutant Type:	Pollutant Choices- Other?	Pollutant Choices Other?	Pollutant Choices Other?	Pollutant (hoices Other?	
	Reduction:	Reduction	Reduction	Reduction:	Reduction:	
	Pollutant Type:	Pollutant Choices- Other?	Pollutant Choices Other?	Pollutant Choices Other?	Pollutant (hoices Other?	
	Reduction:	Reduction	Reduction	Reduction:	Reduction:	
3.	WQ Assessment listing ID Number(s):					

*Additional pages may be added if there are not enough columns provided to report load reductions for all affected watersheds.

BMPs Installed Page

CLEAN WATER ACT SECTION 319 GRANT

Load Reductions Reporting Sheet

Best Management Practices Installed

Please complete the boxes below for each individual BMP installed in the past calendar year that was funded by this grant/contract. Each practice installed should be listed individually (by location/project site). If multiple practices were installed at a single project location, list each practice separately.

- Enter latitude and longitude of project site in decimals (example 47.323036, -121.871338).
- Enter the BMP Type using the list provided at the end of this document. If a BMP is not in the list, please specify the BMP type in the table.
- Provide the length (in feet) and area (in acres or square feet) that the BMP covers as well as any
 other measurements you would like to indicate.
- Enter the BMP cost for the practice that was funded by this grant/contract.

Attach additional sheets if needed.

	Latitude and Longitude	Best Management Practices Type (from list below)	Length in ft (required)	Area in acres or ft ² (required)	Other : specify amt and units	BMP Cost	
1							
2							
3							
4							
5							
6							

Eligible BMP List

CLEAN WATER ACT SECTION 319 GRANT

Load Reductions Reporting Sheet

Best Management Practices List

Definitions for most BMPs can be found at: http://www.nrcs.usda.gov/technical/standards/nhcp.html.

Description	Code			
Channel Stabilization (length and area)				
Channel Bank Vegetation (length and area)				
Composting Facility (units)	317			
Comprehensive Nutrient Management Plan (CNMP) (units)	100			
Constructed Wetland (area)	656			
Fence (length)	382			
Filter Strip (length and area)	393			
Heavy Use Area Protection (area and units)	561			
Invasive Species/Noxious Weed Control (length and area)				
Natural Channel Restoration				
Nutrient Management (area)	590			
Pet Waste Management (area and units)				
Residue and Tillage Management, No-Till/ Direct Seed (area)				
Riparian Buffers - Vegetative (length and area)				
Riparian Forest Buffer (length and area)				
Riparian Herbaceous Cover (length and area)				
Roof Runoff Structure (units)				
Spring Development (units)				
Stream Crossing - indicate type such as bridge, hardened crossing, etc. (units)				
Stream Habitat Improvement and Management (length and area)	395			
Streambank & Shoreline Protection (length and area)				
Tank/Trough (units)				
Tree/Shrub Establishment (length and area, stems optional)	612			
Waste Facility Cover (units)				
Waste Storage Facility (units)				
Watering Facility (units)				
Wetland Enhancement (area)				
Wetland Restoration (area)				
Windbreak/Shelterbelt Establishment (for livestock protection) (length)				

Projects in EAGL (2015 and later)

Section 319 Annual Load Reduction Reporting Form

EAGL Load Reduction Form

- Breadcrumb location in EAGL: Application Menu
- ≻ View Forms
- ≻ Forms Menu
- Section 319 Annual Load Reduction Reporting

Application Menu - Forms

Please complete all required forms below.

Document Information: <u>WQC-2015-MSRF-00104</u> <u>Details</u>

Forms Status Page Name Note Funding Program Guidelines 7 Contact Information SFY 2015 Water Quality Combined Financial Assistance Z Guidelines R SFY 2015 Scoring Guidance Application Forms Ż General Information X Recipient Contacts Ì Location Information 1 Project Development, Local Support, and Past Performance X Readiness to Proceed Y Refinance Form X Preconstruction Form P Section 319 Initial Data Reporting Section 319 Annual Load Reduction Reporting 1 Uploads

EAGL Load Reduction Form

- Form editable in "Agreement Active" and "Agreement in Closeout/Termination" statuses
 - Can be completed by Authorized Official or Recipient Project Manager roles.
- Fill out all required fields denoted with a red asterisk.
- If no BMPs installation occurred for the reporting year, fill out first three (*) required fields, save, then you are done.
 - * Reporting year, Model type, Did you install BMPs during the year?-No

EAGL Load Reduction Form

SECTION 31	9 ANNUAL LO	DAD REDUC	CTION	REPO	RTING					
Required fields a When done, clic When needing t	k the SAVE butt	ton	lick the A	ADD bu	itton.					
*Reporting Year	· 📄									
Load Reduction	Information									
*What type of L (Typically the EP Load Reduction	A's STEPL mode	el – at Interne	et websit	te <u>http</u>	://it.tetratecl			<u>docs.htm</u> is used	for	
*Did you install ● Yes ○ No		g the year?								
	yer may be dow	nloaded from	http://a	dataga	teway.nrcs.u	sda.gov/GDO	Order.aspx Se	stalled during the lect, in the drop-do		
If the model yo "Pollutant Type	ou are using do " column rathe	es not report er than enteri	t on nitro ing a loa	ogen, j id redu	phosphorous uction.	, or sedimen	t, indicate this	using checkbox i	n the	
Load Reduction Table										
*Watershed Number (12 digit HUC)	Pollutant Type #1			it Type 2	*Reduction Amount for #2	Pollutant Type #3	pe *Reduction Amount for #3	Pollutant Type #4	Reduction Amount for #4	
	Nitrogen		Phosph	norus		Sediment				
	Model does not report nitrogen	+	does repo phosph	not ort	Ţ,	Model does not report sediment		~	Ē.	
Implemented B	est Managemei	nt Practices								
Definitions for m	iost BMPs can b	e found at <u>ht</u>	tp://www	w.nrcs.	.usda.gov/teo	chnical/stand	ards/nhcp.html			
*Po	*Best Management Dractice			*Latitude *Longitu			ongitude	*Length in ft *Are		

*Best Management Practice *Latitude *Longitude *Length in ft *Area in Acre

Need more help?

 These slides and other tools can be found on the Nonpoint Activity Project Resources website!

http://www.ecy.wa.gov/programs/wq/funding/FundPrgms/ NPres.html

Don't hesitate to ask us!

Remember: Reports Due January 15 annually and at project closeout

Questions?

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