8-18-15 meeting notes

Format for cover page to be determined

SECONDARY DRAFT FOR WORK GROUP REVIEW

BUILDING CITIES IN THE RAIN

Watershed Prioritization Guidance for a Stormwater Control Transfer Program Harmonizing the NPDES Municipal Permit, Growth Management Act, and Puget Sound Recovery 7-13-15 **Comment [BH1]:** Please note that this is <u>not</u> <u>yet</u> a product of the Work Group. It is a second draft based on the discussions of the Work Group for the group's review before issuance of the document for public comment.

BEGINNING WITH DOCUMENT PAGE 15—NOTE THAT FOOTNOTE NUMBERING IS MESSED UP IN THIS TEXT EXCERPT.

On 8/18/15, Ecology staff (Abbey, Anne, Dan, and Ed) met with the following members of the BCitR Workgroup to discuss comments on the draft Prioritization Table: Scott Stolnack (WRIA 8); Doug Navetski and Claire Jonson (King County); Dana de Leon (Tacoma); Andy Rheaume (Redmond); Lynn Kohn (Commerce); Heather Trim (Futurewise); Stewart Reinbold (DFW)

The assessments prioritize small watersheds, or habitat areas, relative to one another for their protection and restoration value. The Characterization Process analyzes watersheds and sorts them into four different categories – "Protection", "Restoration", "Conservation", and "Development". Ecology indicates that watersheds that fall into the "Protection" and "Restoration" categories are expected to rank as higher priority under a stormwater control transfer program than watersheds in the "Conservation" or "Development" categories.

b. Using Local Data

To implement a successful stormwater control transfer program, a jurisdiction will need to further prioritize receiving waterbodies or receiving waters based on local conditions. A two-step process described below is recommended for using local data to refine prioritization of receiving waterbodies or receiving waters. Data from the first step can be used to do an initial review of receiving waterbodies or receiving waters. Step 2 data digs deeper into the connection between stormwater management and waterbody quality or value to further refine or validate the initial prioritization. The next section – Table 1 – provides information on the sources of local data.

Step 1: Potential and Actual Fish Use and Aquatic Habitat

Review the receiving waterbodies or receiving waters for actual or potential fish use with a focus on the biological conditions and potential for environmental lift. Give higher priority to receiving waterbodies or receiving waters with low to moderate levels of impairment¹ as assessed using the following data:

- Presence of culverts or other barriers, including natural barriers, to fish passage.
- Percentage of tree canopy/condition of buffer for habitat and shade (This may also be considered at Step 2.)
- Benthic Index of Biotic Integrity (B-IBI) as an indicator of biological conditions.
- Known water quality impairment 303(d) listings and Total Maximum Daily Loads (TMDLs²), local knowledge, or low instream flows – that impact fish mortality and use.

Step 2: Flow control/LID and runoff treatment opportunities

Review the receiving waterbodies or receiving waters for opportunities to address flow control issues or provide runoff treatment. Give higher priority to receiving waterbodies or receiving waters within which stormwater management improvements are expected to accelerate environmental improvement.³

Comment [a2]: I think this is unnecessary since it is in the first sentence

¹ Ecology Prioritization Principle #1 (page 9 of draft Ecology guidance)

² TMDL is a calculation of the maximum amount of a pollutant that a waterbody can receive and still safely meet water quality standards.

³ Ecology Prioritization Principle #3 (page 9 of draft Ecology guidance)

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Physical flow control data:

- → Percentage of impervious area/land cover in the watershed containing the receiving waterbodies or receiving waters
- —Extent, age and condition of stormwater management treatment and flow control infrastructure — an assessment of the need for retrofits
- _____Ripeness to proceed (local knowledge, aligns with programs such as tree planting and stormwater capital improvement plan, etc., that will accrue water quality or stream flow benefits.)
- Watershed area data (inside vs. outside jurisdictional boundaries) Give higher priority to receiving waterbodies or receiving waters in watersheds where the municipality can exert greater influence. However, if the municipality coordinates a priority watershed identification and rehabilitation strategy approach with a neighboring municipality, receiving waterbodies or receiving waters in a shared watershed may be scored higher.⁴
- <u>Presence of culverts or other barriers, including natural barriers, to fish passage.</u>
- Coordination with state, regional and local plans Give higher priority to receiving waterbodies or receiving waters in watersheds where other regional rehabilitation efforts are also focused⁵ through:
 - Comprehensive plans and zoning understanding the potential for growth in the watershed is necessary for prioritizing and planning a retrofit appropriate for the watershed's future.
 - Salmon Recovery Plans (3-year work plans, Water Resource Inventory Area priorities)
 - TMDL plans (active and planned)
 - Model Toxics Control Act/Superfund cleanups
 - Regional ecosystem goals, e.g. B-IBI
 - o Endangered Species Act listings and critical habitat designations

In all cases, seek input from federal (US Fish and Wildlife, NOAA Fisheries, US Environmental Protection Agency), tribal, and state (Departments of Fish and Wildlife, Ecology and Natural Resources) resource agencies to gain buy-in on the proposed plan. Those agencies may have data pertinent to establishing priorities, and informed opinions about the relative importance of watersheds.

c. Local Data for Prioritization of Receiving Waters

This section discusses recommended sources of local data to be used in the two-step prioritization analysis. The data sources are evaluated for flow control and LID separately from runoff treatment. Flow control and LID are evaluated together because Ecology's guidance limits transfers of LID requirements to the performance standard, which is a flow duration standard.⁶ Each jurisdiction will need to provide information on the data used and explain the prioritization process to Ecology and the public.

The data are split between highly useful and useful. Data identified as "highly useful" are important to assess potential environmental lift and suitability for retrofits. Data recommended as "useful" should be used to further inform prioritization decisions if it is available.

Comment [eo3]: ECY suggests that this heading is not appropriate. The bullets below cover issues beyond "physical flow control data." That term itself is confusing anyway. Suggest eliminate this heading and move the four "see-through" bullets to the left, making them solid black bullets.

Comment [SA(4]: Group agreed with this change

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Comment [eo5]: ECY

proposal/recommendation: It is not appropriate to use future growth plans to prioritize watersheds. It is appropriate to look at comp plans and zoning to anticipate where regional facilities could be built to serve existing development, redevelopment, and new development. So, this statement should be eliminated here.

Comment [SA(6]: There was significant discussion on this topic, some would like comp plans to be used as an information tool; others see the concern that ECY raised; others see that this ref is in the wrong place, e.g: potential for growth should be considered as a "ripeness to proceed" category. All agreed that the sentence that follows the Comp plan should be deleted. Need further discussion

⁴ Ecology Prioritization Principle #2 (page 9 of draft Ecology guidance)

⁵ Ecology Prioritization Principle #4 (page 9 of draft Ecology guidance)

⁶ See draft Ecology Guidance, page 6, #1.

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All of the data and prioritization decisions will be informed by local, on the ground knowledge of streams and habitat conditions.

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Table 1: Recommended Local Prioritization Data for Flow Control, Low Impact Development and Runoff Treatment

	FI	ow	Ru	noff			
Data Sources	Contr	ol/LID	Trea	tment	Comments/ <mark>Notes</mark>	Comm	ent [BH(7]: I will put these headings
Stan 1 ·	Highly Useful	Useful	Highly Useful	Useful		at the to reviewe Work G	op of each page after you have d it and before I send this out to the roup for work over the summer with
Step 1.	FISH US		qualic		<u>113</u>	Ecology	•
 Actual or Potential Fish Use & Existing Aquatic Conditions Current Chinook, Coho and other salmonid use and potential use data: Water Resource Inventory Area (WRIA) Plans Watershed Characterization habitat data – Puget Sound Characterization Project SalmonScape web site maintained by WDFW provides a computer mapping system for salmon recovery planners. It has lifestage and barriers information for mainstems and named tributaries. It will need to be verified and refined by local data and knowledge, especially for smaller or unnamed tributaries. Salmonid Stock Inventory (SaSI) web site has reports describing and categorizing the status of 435 salmon and steelhead stocks. County and city-specific data. Location of physical and natural barriers – Local governments - and state DOT maintains this data? Subareas of streams that drain to downstream hatcheries as well as to salmon bearing streams 					A local government needs to know that fish are they are prioritizing for habitat restoration. Of of data types, Chinook is the best indicator of h issues. Potential fish use data is highly useful for salmo recovery. Barriers information recorded in WDFW Fish Pa Program	pr deleting his rivers a flow-co have ch storm fl are bett where c concerr lssa deletion Comm	ent [SA(10]: ECY recommends g this statement as chinook tend to use nd large stream that are most likely ntrol exempt and/or are less likely to annel alterations caused by urban ows. Coho, chum, and other salmonids ter indicators for small streams – thinook are less likely to be a species of the sale of the sale of the sale of the thinook are less likely to be a species of the sale of the sale of the sale of the sale of the thinook are less likely to be a species of the thinook are less likely to be a species of the thinook are less likely to be a species of the thinook are less likely to be a species of the thinook are less likely to be a species of the sale of the sal
 Take advantage of existing prioritization efforts if available, especially those with tribal co-manager involvement. 	x			x	/	needs to	o be discussed by the Work Group.
	I					NOTE: C hatcher	Group agreed with addition of ies
						Comm	ent [SA(9]: Move the 2 nd bullet to

Coordination with local, state plans section

⁷ See King County example at http://www.govlink.org/regional-water-planning/tech-committees/trib-streamflow/TribStrmflwFinalReport10-2006.pdf.

Known number of culvert crossings/1,000 linear feet - city or				Mapped culvert crossings (street, driveway, or utility) per
county <mark>maps</mark>.				1,000 linear feet on mapped Class II stream chann Comment [BH(12]: Should this be moved
				each watershed within the jurisdictional boundariant up to the yellow highlighted bullet above?
				Does not include trail bridges, long storm pipes, pi Comment [SA(13]: Move to pg. 9 Land use
				outfalls, or piped sections of stream headwaters (even if
				mapped in culvert layer). Multiple parallel culverts are
	- X	-	- X	counted as one crossing.
Aquatic Habitat Condition				
All available physical stream assessment data related to				Comment ISA(14): FCY suggests that the
salmonid habitat conditions, including, but not limited to:				prioritization consider any available stream
pool/riffle ratio: type of substrate: embeddedness: and Naturally				assessment information not just LWD
occurring large woody debris/100 linear feet - weighted average				Comment ISA(151: Group agreed with this
of large woody debris density over walked channel length. This				change, but would like to add a row and
data can be collected by local government staff walking each				develop data sources for Nearshore Marine
creek Standard Operating Procedures for collecting this data				and large, flow control-exempt River habitat.
can be found at:				Individuals may offer suggested language. The
http://www.ecv.wa.gov/programs/eap/guality.html				WRIA 8 Study may be an additional data
A study assessing streams in WRIA 8 provides recommendations				
for calmon babitat parameters and procedures:				Large woody debris is defined as wood at least 10 inches
http://www.kingcounty.gov/donts/donts/donts/				in diameter and 10 feet long in or over bankfull channel ⁸
nrograms (science section (deing science (wadeable				counted by field crows. (Uppercessory for runoff
programs/science-section/doing-science/wadeable-		V		treatment)
	<u> </u>	<u> </u>		
Tree Canopy/Condition of Buffer for Habitat				
Naturally occurring large woody debris/100 linear feet				Large woody debris is defined as wood at least 10 inches
weighted average of large woody debris density over walked	1	×	1	in diameter and 10 feet long, in or over bankfull channel ^a

⁸ "Bankfull width" is defined by the Washington State Department of Natural Resources in WAC 22-16-010 for streams as "the measurement of the lateral extent of the water surface elevation perpendicular to the channel at bankfull depth. In cases where multiple channels exist, bankfull width is the sum of the individual channel widths along the cross-section (see board manual section 2)."

^a <u>"Bankfull width" is defined by the Washington State Department of Natural Resources in WAC 22-16-010 for streams as "the measurement of the lateral extent of the water surface elevation perpendicular to the channel at bankfull depth. In cases where multiple channels exist, bankfull width is the sum of the individual channel widths along the cross-section (see board manual section 2)."</u>

channel length. This data can be collected by local government					counted by field crews. (Unnecessary for runoff
staff walking each creek.					treatment.) Comment [SA(16]: ECY supports creating
					new category above: in-stream habitat, as this
					topic does not correspond to tree
					Tree canopy includes trees with a minimum 10-foc.
Tree canopy percentage cover in local government regulatory					diameter canopy within regulatory buffers for ope Comment [SA(17]: Group agreed with this
stream buffers – aerial photography.					channel stream reaches within the jurisdictional lichange
					Tree canopy can be used as a tiebreaker between two
					otherwise equally ranked receiving waterbodies or
	х		х		receiving waters.
Percentage of intact 300-foot vegetated stream buffer – aerial					
photography.		х		Х	
					The extent of intact buffers throughout a stream system
					correlate well with fish recovery/potential. Higher values
					equate to more vegetation. All vegetation including
Percentage of intact 100-foot vegetated stream buffer – aerial					landscaped and mowed or plowed land is included –
photography.	Х		Х		trees, shrubs, and unmoved grasses.

Benthic Index of Biotic Integrity							
Benthic Index of Biotic Integrity (BIBI) ¹⁰ , where appropriate, to							
measure aquatic health. Local government can collect this data				BIBI scores provide a quantit	ative method for		
relatively inexpensively.				determining and comparing t	the biological conditi	on of	
				streams using the macro-inve	ertebrate assemblage	es as	
				indicators. BIBI scores can be	e shown as the media	an value	
				of all samples taken from the	e applicable stream.		
				BIBI data is highly useful for f	fresh water, but is no	ot	
				available for salt water. As it	cannot be collected	in all	
				streams, other measures of a	aquatic health may be	e	
				needed. It is a good metric o	n a yearly scale for th	ne	
				general health of a stream ar	nd shows a good corr	relation	
				with impervious surface and	flow metrics.		
				Another measure of aquatic	health could be squa	ire miles	
				of road density as a percenta	ge of the watershed	Comment	t [SA(18]: ECY suggests that it is
	Х		Х	<mark>24-15 meeting)</mark>		better to in	nclude this measure in the existing
Known Water Quality Impairment						land use ca	tegory (see proposed)
Ecology listed water quality impairments - State Water Quality						Comment	t [SA(19]: Group agreed with this
Assessment (cat 4a, 4b, 4c, or 5) at Ecology's Water Quality				Waterbodies that are identif	fied on the Ecology 3	C change	
Assessment and 303(d) List.				list as a category 5 or catego	ry 5B due to impairm	nent	
	х		Х	from the indicated water qua	ality parameter.		
Known water quality concerns based on locally-collected data:				If a local government collects	s this data, it is good	data to	
High temperature, low dissolved oxygen, and high fecal coliform				have.			
bacteria.			Х				
Shellfish bed health - shellfish bed closure(s)- Washington State				Shellfish bed closures by the	Washington Departr	ment of	
Department of Health Beach Closures		х	Х	Health are an indicator of wa	ater quality issues.		

¹⁰ Fish Index of Biotic Integrity (F-IBI) is good data where it is available, but it can be hard to interpret as it is stream size dependent.

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	Step 2: Flow Control, LID and Runoff Treatme	nt Opp	ortuni	ties_Or	pportunity Assessment		
	Physical Flow Control Data						Comment [eo20]: This Supertopic heading
	Existing/Current Land Cover - Percentage of land in the watershed in each	h categ	gory: fo	orest, p	pasture, landscaping and effective impe	rvio	is no longer appropriate. The topic areas in hold font below cover much more than flow
	surface.					\square	data. Eliminate this. See similar comment in
	<u>Forest</u> - Aerial photography .					$\langle \rangle$	the text.
.	Pasture - Aerial photography.					$\langle \rangle \rangle$	Comment [SA(21]: Group Agreement
	Landscape & Impervious - Developed areas (all areas not pasture or forest) are identified as affective impervious or landscaped based on literature values for						Formatted: Indent: Left: 0"
I I	each land use. This can be done at the parcel level, combining zoning or land				Landscape is the area in developed		Comment [OE(22]: Add "or satellite
	use designations into commercial, industrial, low/medium/high density				For proces with highly porous soils	Jerv	
	residential, and roads.				impervious surface should be consi	dere	Comment [BH23]: I had a note that we decided not to use effective impervious
	Note that the Western Washington Land Cover Change Analysis project provides a look				Effective impervious surface is the	area	surface? I believe this came from Andy.
	at land cover change over time and provides estimates of percent forest cover and				developed watersheds that is impe	rviou	Comment [SA(24]: ECY observes: the
	impervious for designated catchment areas.				directly connected to the storm dra	iin	exercise to derive Effective Imp. Area is not
	Literature values for dividing parcels into effective impervious and landscape				system. ¹¹ Literature values for divid	ling	necessary as there is often little difference.
	for each land use type can be derived from hydrology literature. Department of				into effective impervious and lands	cape	this will largely be based on local knowledge -
	Fish and Wildlife is currently working on a high resolution land cover change				each land use type can be derived f	rom	see note
	product, available at:				nydrology literature.	6	Comment [SA(25]: Agreement
	http://wuiw.wa.gov/conservation/research/projects/aerial_imagery/index.html				available in the same data set	nen	Comment ISA(261: ECY: hyperlink is
	guare miles of road density as a percentage of the watershed – as a metric of				available in the same data set.	\backslash	http://www.ecy.wa.gov/services/gis/data/ima
	aquatic health.	Х		Х		\square	geryBaseMapsEarthCover/landcover/landcove r.htm

¹¹ Municipal Stormwater Permits for Western Washington, Appendix 1, Section 2, Definitions related to Minimum Requirements for a complete definition of "effective impervious surface".

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and remove from BIBI section
Comment [SA(28]: Agreement

will clarify...

Comment [SA(29]: I have a note that Andy

Comment [SA(27]: ECY suggestion: Better to include in the existing land use category

High vehicle traffic areas – Annual Average Daily Traffic ¹² >7,500.			X	(Unnecessary for flow control.) Comment [BH30]: This was the left over meatloaf. I didn't see where to put this based on the Process outline.
				Comment [SA(31]: ECY edit: Moved up from SW influence
				Comment [SA(32]: Agreement
Evisting (Current Land Lice Data Descentage of land in use for commercial	امما اما	امتعنوا	roode	
Existing/Current Land Ose Data – Percentage of land in use for commerce	iai, indi ndovol	opod l	roaus	is (include the fight-of-way parcel, private, an Formatted: Font: (Default) Calibri, 12 pt, Bold Font color: Black
Land uses are parcel based and calculated by summing different land use types	nuevei	opeu	anu.	
into the categories presented from a maintained city or county Land Use GIS				Formatted: Normal
database. Can also use Buildable Lands Analysis. ¹³ Land use designations and				Runoff treatment transfers should go to a like
zoning are not always indicative of what is on the ground. Selecting categories				land use or to a land use with greater
to lump land uses into should be based on the literature values for effective				pollutant-generating potential. ¹⁴
impervious surface percentages for each land use. This exercise should be				
simple once the jurisdiction decides what to use for categories of existing land				Land use and land cover data are often
use.		Х	Х	available in the same data set.
				Mapped culvert crossings (street, driveway, or
				utility) per 1,000 linear feet on mapped Comment [OE(33]: Why is this restricted to
Known number of culvert crossings/1,000 linear feet – city or county maps.				stream channels in each watershed with Class II stream channels? Maybe the intent
				Jurisdictional boundaries. Does not inclu was to say class if and larger stream chambers
				trail bridges, long storm pipes, pipe out Comment [SA(34]: This is a new comment
				manned in culvert layer). Multiple para Recommendation for consideration: Instead of
	V		v	culvorts are counted as one crossing Class II (Redmond rating) Use the Typing
	<u>^</u>	-	<u>^</u>	System adopted by DNR and refer at least to
				Type S and F streams (WAC 222-16-030)

 ¹² Total volume of vehicle traffic of a highway or road for a year divided by 365 days.
 ¹³ Buildable Lands Report per RCW 36.70A.215.
 ¹⁴ See draft Ecology guidance on page 5 regarding transfers of basic versus enhanced treatment under Specific Guidelines re: Minimum Requirement 6 Runoff Treatment.

1	Age and condition of stormwater management treat	tment a	nd flov	<u>v control</u> i	nfrastructure	
	High vehicle traffic areas – Annual Average Daily Traffic ¹⁵ >7,500.			×	(Unnecessary for flow control.)	
	Outdated flow control infrastructure needing retrofit - percentage of watershed developed before [DATE TO BE DETERMINED-Retrofit need by the Work Group - 2010?]based on flow duration	x			This data indicates the environmental lift potentia installing stormwater retrofits. While a good indic not all jurisdictions with have this information. (Unnecessary for runoff treatment.)	al from cator,
1	Total acres/percentage of developed watershed not equipped with basic runoff treatment. This can be done by plat and based on the age of the plat. It is important to remove forest and pasture areas from total watershed area to make sure undeveloped areas are not counted in the areas needing basic treatment.			x	The percentage can be calculated using the entire watershed minus areas that currently contribute to a basic treatment facility or are currently fores pasture.	e runoff t or
	Known number of <u>stormwater pipe and ditch</u> outfalls and ditches, <mark>including the location and severity of fish passage</mark> barriers – city or county maps.				Mapped <u>stormwater</u> outfalls and ditches draining pollution generating surfaces for 1,000 linear feet	Comment [SA(35]: ECY observation: This is addressed in Fish Use category
i		X		Х	stream classes within the jurisdiction.	Comment [SA(36]: Agreement
	Known number or mapped alten outrails (or pipes smaller than 12") potentially draining from pollution generating surfaces within jurisdictional boundaries – city or county maps.	×		×		Comment [SA(37]: ECY note: Mapped ditch outfall are addressed above
	within jurisdictional boundaries acty of county maps.	~		~		Comment [SA(38]: Agreement
	Ripeness to Proceed Local knowledge of alignment with other programs such as tree					Formatted: Font: (Default) Calibri, 12 pt, Bold, Font color: Black
	planting, capital improvement plan, <u>asset management plans,</u>				This wasn't in the data sets discussed, so do not k	Formatted: Normal
1	etc. Watershed Area Data				now useful it is for flow control/LID or runoff trea	Formatted: Font: (Default) Calibri, 12 pt, Bold, Font color: Black
İ	Watershed area data – total acres of stream area inside and					Formatted: Normal
	outside jurisdictional boundaries. Local governments could be very accurate with this exercise or simply use topography to delineate areas that drain to each receiving water	х		x	Includes stormwater conveyance and topographic watershed.	Comment [SA(39]: ECY: Stream acres is not the same as watershed area. ECY believes that watershed area is the appropriate criterion
	10					Comment [SA(40]: Agreement with

changes

⁴⁵-Total volume of vehicle traffic of a highway or road for a year divided by 365 days.

body/receiving waters. If nothing else, local governments could use catchments delineated in the Puget Sound Watershed Characterization Model, which are likely from a larger dataset owned by someone at the state level, likely WDNR. Data sources at DNR?						
Each Stream length—total stream miles and percentage of total stream miles within jurisdictional boundaries Local governments should create their own stream data, which likely occurred as part developing the critical areas ordinance. Even with inaccuracies local critical area map should be sufficient. Newer LiDAR data to map water bodies is by far the most accurate.	x		x		If a stream flows into the jurisdiction from a less developed area outside the jurisdiction, then the jurisdiction may want to prioritize that stream. Co will be important to understand the habitat well.	Comment [SA(41]: ECY proposed addition: A jurisdiction might have significant # of stream miles in their jurisdiction, but if that number is still dwarfed by the number of stream miles for the subject watershed that are outside their jurisdiction, that limits the ability to influence overall watershed health.
Class II (Department of Natural Resources Type F plus S ¹⁶) stream length inside jurisdictional boundaries. Data sources?		х		х		Comment [SA(42]: Agreement with changes

¹⁶ The Washington State Forest Practices Board has adopted an interim water typing system in WAC 222-16-031. Type F streams have fish use as defined in WAC 222-16-031(2) and (3). Type S streams are inventoried shorelines of the state as referenced in WAC 222-16-031(1).

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and parks. Comment (SA(44): EX Proposal/suggestion This info could be added to the text on the comment (SA(45): EX Proposal/suggestion This info could be added to the text on the comment (SA(45): EX Proposal/suggestion This info could be added to the text on the comment (SA(45): EX Proposal/suggestion This info could be added to the text on the comment (SA(45): EX Proposal/suggestion This info could be added to the text on the comment (SA(45): EX Proposal/suggestion This info could be added to the text on the comment (SA(45): EX Proposal/suggestion This info could be added to the text on the comment (SA(45): EX Proposal/suggestion This info could be added to the extended and vocal text to the watershed to be sited, and may help to inform or develop land uses trategies that to the watershed must be considered. Function and structure code combinations can be for each land use type. 0 Regional ecosystem goals, e.g. B-IBI o. Findangered Species Act listings and critical habitat to the watershed species Act listings and critical habitat watershed promitation – this prioritization effort should be science-based, not based on water development density. For example, four-cited effort should be science-based, not based on water development is planned to occur. Whit formity includes commercial first story with digation includes areas that are not developed and water development is planned to occur. X X x X	Zoned Land Use/Land Cover – Zoning designations/p	<mark>lanned uses f</mark>	ə r comn	nercial, industrial, single-family and multi-family resid	lential,
D Regional ecosystem goals, e.g. B-IBI Function and structure code combinations can be for each land use type. However, future land use and zoning is inappropriate criteria for determining waterid prioritization – this prioritis – this prioritization – t	Coned Land Use/Land Cover – Zoning designations/r and parks. City or county comprehensive land use and zoning maps. Zoning, right-of-way, critical areas, stormwater and other regulations related to land cover. o Salmon Recovery Plans (3-year work plans, Water Resource Inventory Area priorities) o TMDL plans (active and planned) o Model Toxics Control Act/Superfund cleanups	Hanned uses H		Zoning is important because future development to the watershed must be considered.	Comment [SA(44]: ECY proposal/suggestion: This info could be adde to the text of the document and would be helpful to determine whether there is enough redevelopment occurring in the low priority watersheds to make this program useful, as well as inform where runoff treatment facilities will need to be sited, and may help to inform or develop land use strategies that help to protect high priority watershed (e.g. where zoning changes may be needed; changes to lot coverage limits, need for additional stream buffer spatiations, oto)
• Multi family includes condominiums and apart Can include commercial first story with dwelling above in the commercial area calculation. above in the commercial area calculation. Parks and Undeveloped Land – Undeveloped land includes areas that are forest and pasture, as well X X X X	o Regional ecosystem goals, e.g. B-IBI o Endangered Species Act listings and critical habitat designations			Function and structure code combinations can be for each land use type. Residential: Single-family can be further differentiated be development density. For example, four cat of single-family based on parcel size.	additional stream buffer protections, etc). However, future land use and zoning is inappropriate criteria for determining watershed prioritization – this prioritization effort should be science-based, not based on where development is planned to occur. Comment [SA(45]: More discussion needer re: Comp plans and where it can be appropriate in this guidance
X X X X Formatted: List Paragraph, Bulleted + Level: 1 + Aligned at: 0" + Indent at: Y X X Y Comment [SA(43]: ECY recommends: This table should be expanded to include the plans goals, listings, and clean-up activities listed in the text on page 16.				 Multi family includes condominiums and ap Can include commercial first story with dwe above in the commercial area calculation. 	Formatted: Font: (Default) Calibri, Font color: Black
X X X Includes areas that are forest and pasture, as well other areas that are not developed. Comment [SA(43]: ECY recommends: This table should be expanded to include the plans goals, listings, and clean-up activities listed in the text on page 16.				Parks and Undeveloped Land – Undeveloped lar	Formatted: List Paragraph, Bulleted + Level: 1 + Aligned at: 0" + Indent at:
		X	x	includes areas that are forest and pasture, as we other areas that are not developed.	Comment [SA(43]: ECY recommends: This table should be expanded to include the plans goals, listings, and clean-up activities listed in the text on page 16.

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9. Stormwater Influence				
High vehicle traffic areas — Annual Average Daily Traffic ¹⁷ >7,50	9.	×	(Unnecessary for flow control.)	Comment [BH46]: This was the left over meatloaf. I didn't see where to put this based on the Process outline. Comment [SA(47]: ECY: Existing Land Use category. Comment [SA(48]: Agreement

⁴⁷ Total volume of vehicle traffic of a highway or road for a year divided by 365 days.

^{14 –} SECONDARY DRAFT Prioritization Guidance 7-13-15 – Ecy edits – post 8/18/15 meeting with partial BCitR workgroup