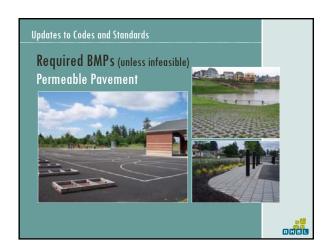
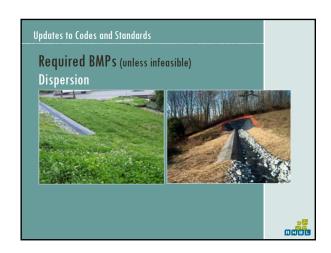
LID Briefing for			
NPDES Permittees Integrating LID into Codes & Star	ndards		
integrating Lib into Codes & Stat	iuuius		
	AHBU		
Introduction			
PRESENTATION OVERVIEW			
Middle of a 4-5 year training process			
Permittees Engineers Landscapers Realtors			
Composters			
 Objective: Discuss the integration of LID into local codes and standards. This will include the steps needed to accomplish LID code integration. 			
needed to accomplish LID code integration.			
	AHBL		
Introduction			
NPDES Phase I & Phase II permits			
Reissued Phase I permit & first issued Phase II permits in 2007			
The Western WA permits were appealed to the Pollution Control Hearings Board (PCHB)			
PCHB decisions compelled Ecology to prepare a requirement in the 2012 permits to require LID			
unless infeasible — You know the "rest of the story"		<u></u>	
	AHBL		

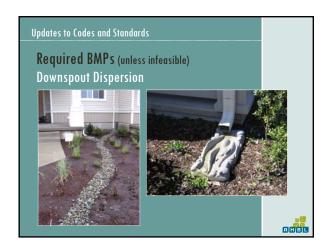
Updating Codes and Standards			
Marie Ma	Acces		
	<u>.</u>		
Updates to Codes and Standards			
Western WA Phase I & Phase II NPDES			
permit overview • LID required, where feasible			
Review & amend local codes & standards			
Site & subdivision scale requirements Small, medium and large projects			
	анвь		
Updates to Codes and Standards			
LID BMPs identified in the permit		-	
Key best management practices (BMPs) required where feasible			
Optional BMPs that permittees may opt to allow or require			
Key LID principles			
	AHBL		

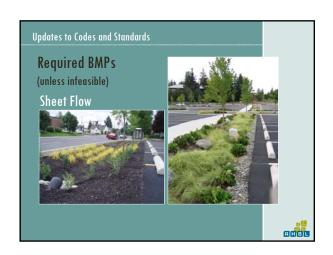


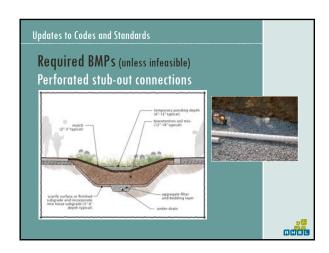


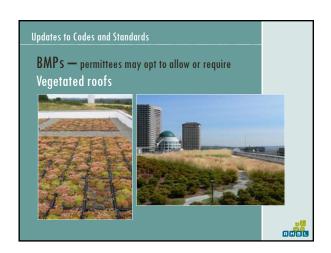


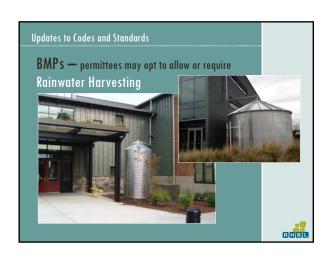












Updates to Codes and Standards	
BMPs — Permittees may opt to allow or require Minimal Excavation Foundations	
Millimid Excurding Toolidaning	
AHBL	
Updates to Codes and Standards	
Development Code Review	-
Amendment Goals Reduce impervious surface	
Protect native vegetation Reduce stormwater runoff	
Make LID the preferred and commonly used approach	
Updates to Codes and Standards	1

Development Codes • Directive • Prescriptive • Prescriptive • Directive for developers & discretion for local government

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Updates to Codes and Standards			
LID Key Principles • Permit requires non structural practices integrated into early stages of project design			
 LID <u>principles</u> include: Conserve Vegetation Reduce & Disconnect Impervious Surfaces 			
— Distribute small-scale techniques — Infiltrate on site			
	АНВС		
Updates to Codes and Standards	_		
Code amendments for implementing LID principles			
— Keduced road width			
— Changes in road layout and orientation — Clustering			
— Higher building & smaller footprints — Parking regulations			
— Landscaping using bioretention			
	анви		
Updates to Codes and Standards			
Development Code Review			
& Amendment			
	AHBL		
	AHBU		

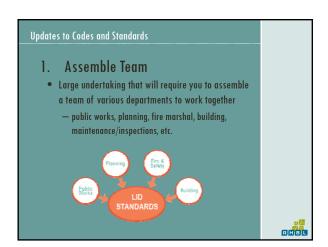
DEADLINES: December 31, 2016 except; Lewis and Cowlitz - June 30, 2017 Aberdeen - June 30, 2018 — Timing is to be coordinated with major 10 year GMA updates

START NOW This process is not difficult, but will take time Begin thinking with the end in mind

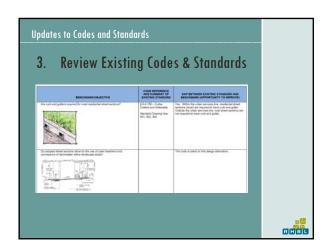
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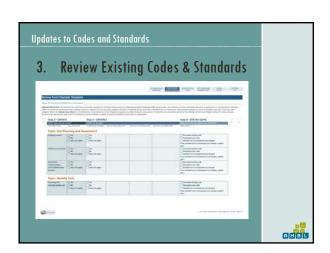


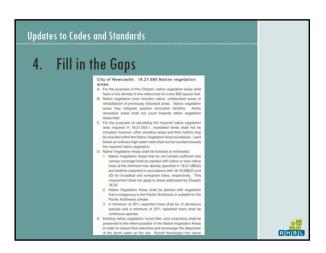


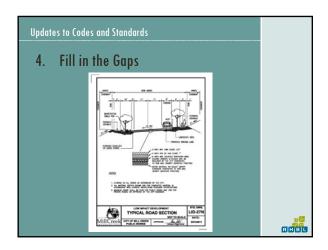


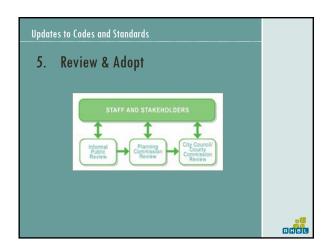


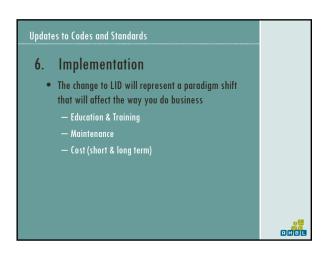


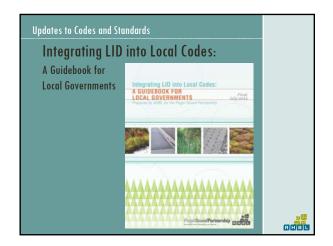


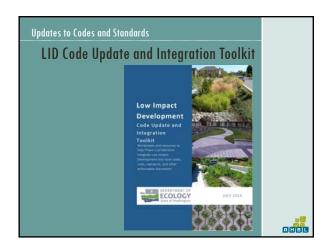












Questions & Evaluation THANK YOU! Wayne E. Carlson, AICP, LEED AP AHBL, Inc. 1200 6th Avenue, Suite 1620 Seattle, WA 98101-3117 (206) 658-2674 wecarlson@ahbl.com