

South Central Action Area Caucus Group Caucus Meeting

June 1, 2016

12:30 PM – 2:30 PM

Renton City Hall

1055 S Grady Way, Renton, WA 98057

AGENDA

Meeting Purposes:

- Update on Puget Sound Partnership transitions
- Discuss role/value added of South Central Caucus
- Brainstorm 2016-2017 work plan ideas (life beyond the Action Agenda)
- Status updates on King County Eco-Net and elements of 5-year ecosystem recovery plan

Time	Topic	Lead/Action
12:30 – 12:40	Welcome & Introductions	Chair
12:40 – 12:45	Review Meeting Summary	Chair <i>Decision</i>
12:45– 1:00	Update on Puget Sound Partnership transitions	Chair <i>Discussion</i>
1:00 – 1:25	Discuss role/value added of South Central Caucus	Chair, Jean White <i>Discussion</i>
1:25 – 1:50	Brainstorm work plan for 2016-2017	Chair <i>Discussion</i>
1:50 – 2:00	Update on King County Eco-Net	Jean White, Annette Frahm <i>Discussion</i>
2:00 – 2:10	Status update on 5-year ecosystem recovery plan	Chair <i>Discussion</i>
2:10 – 2:25	Good of the Order <ul style="list-style-type: none">• ECB and Finance Subcommittee update• Joint Legislative Audit and Review Committee request• PSP updates• Seed money updates• Member updates	Chair, Gretchen Muller, Bruce Wulkan, Allan Warren, and Caucus Members <i>Discussion and direction</i>
2:25 – 2:30	Wrap-Up & Adjourn	Chair

Upcoming Meeting Dates:

1. July 6 Workshop (Renton City Hall)
2. August 3 Caucus Meeting (Renton City Hall)

South Central Action Area Caucus Meeting
May 4, 2016
12:30 -2:30 p.m.
Renton City Hall (Council Chambers)

Attendees:

Members and Alternates

Name	Affiliation	Name	Affiliation
Bruce Wulkan	Puget Sound Partnership	Lynn Schneider	PHSKC
Tom Kantz	Pierce County/ WRIA 10/12	Dave White	King County
Fred Jarrett	King County	Sherrie Duncan	Citizens for a Healthy Bay
Kathy Minsch	City of Seattle	Lorna Mauren	City of Tacoma
Mike Mactutis	City of Kent / Sound Cities Association	Chrys Bertolotto	WSU Snohomish County Extension
Aaron Halverson	Lake Forest Park/ Sound Cities Association	Allan Warren	Pierce Conservation District
Annette Frahm	King County ECO Net	Jason Mulvihill-Kuntz	WRIA 8
Heather Trim	Futurewise	Jean White	King County
Brandy Reed	King Conservation District	Dennis Robertson	WRIA 9

Other Attendees

Name	Affiliation
Leska Fore	PSP
Gretchen Muller	Cascadia Consulting Group
Ruth Bell	Cascadia Consulting Group
Marie Novak	Cascadia Consulting Group

Welcome and Introductions

Fred Jarrett welcomed everyone to the meeting and reviewed the purpose of the meeting.

Review Meeting Summary

Fred asked for revisions to the March meeting summary. Allan Warren moved to approve, Dave White seconded. All were in favor. The March meeting summary was approved as written.

Status Update: King County Comments on Action Agenda and EPA Email

Fred reviewed the EPA response which offers a path for direct funding and sets a precedent for the future. LIOs could get as much as \$500,000 through 2020 (based on appropriation levels for FY 2016). There is also potential to use some of the \$75,000 of planning money for implementation, although that is yet to be decided. The funding allocation process for projects is also uncertain.

King County sent a letter to PSP commenting on the Action Agenda; they expressed appreciation for comments. The South Central LIO did not send a separate letter commenting on the Action Agenda.

Review Draft Vision Statement

Gretchen reviewed the draft vision statement for the 5-year Ecosystem Recovery Plan, included in the meeting packet. The group provided feedback and suggestions and revised the statement as follows:

“Advance the recovery of a resilient Puget Sound ecosystem through local approaches and partnerships that are innovative, measurable, sustainable, and effective.”

Jean White moved to approve the statement, Allan seconded. All were in favor. The vision statement was approved as amended.

Review Updated LIO Profile and LIO Accomplishments

Gretchen reviewed LIO profile updates and accomplishments, included in the meeting packet, which will be included in the 2016 Action Agenda. The group discussed and suggested edits, which will be incorporated and then sent around for further review. Gretchen requested that the group email her with additional comments or suggestions. The final version must be approved by May 30.

Review Draft Goal Statements (5 Vital Signs)

Gretchen reviewed the process for developing goal statements for Vital Signs as part of the 5-year Ecosystem Recovery Plan, included in the meeting packet. A working group met in April, selected four Vital Signs to develop goal statements based on regional targets and LIO's existing and planned work, including submitted NTAs. An additional Vital Sign was added and goal statement developed after the working group meeting. There will be additional in-person work sessions as well as work via email to develop goal statements for all selected Vital Signs. Members provided the following feedback on the draft goal statements:

- **Floodplains** – Difficult to measure no net loss of floodplain function. Also, the numerical target is too precise, round the number.
- **Land cover and development** – There should be a statement about engaging landowners in preserving land cover. Change wording to “net restoration,” as there could be restoration with a net loss. Public support in the fourth bullet seems too vague to reliably measure. Chrys Bertolotto volunteered to send language about engaging landowners.
- **Freshwater quality** – integrated a stormwater focus in the goal statements. Bruce Wulkan invited members to help refine the B-IBI goal. Look at old projects, as well as add B-IBI aspects to new and current projects. Lorna Mauren offered to draft bullet for street sweeping and system cleaning. The first bullet seems hard to measure, Dave White suggested pounds of toxics removed with potential for refinement.
- **Shoreline armoring** – did not have time to discuss as a group
- **Onsite sewage**– did not have time to discuss as a group

Review Human Wellbeing Vital Signs and Determine Next Steps

Gretchen reviewed new Human Wellbeing (HWB) Vital Signs recently released by PSP. A background document with new Vital Signs and descriptions was included in the meeting packet. The group discussed three options for the new Vital Signs:

- 1) Do not adopt any of the new HWB Vital Signs
- 2) Adopt a few, including some of those discussed at April 6 workshop

- 3) Include a statement in the 5-year Plan expressing support for certain Vital Signs but do not officially adopt any new Vital Signs.

The group decided to include a statement of support for new Vital Signs in the 5-year Ecosystem Recovery Plan, especially Sound Stewardship, and integrate public engagement and stewardship goals into existing Vital Sign goal statements. Chrys volunteered to draft language to include in goal statements for other Vital Signs.

Good of the Order

- ECB agenda items (Fred Jarret):
 - Next meeting May 19, preceded by workshop on legislative agenda. Fred will be attending along with a legislative lobbyist to ensure consistency with regional priorities.
 - Finance Subcommittee developed an approach to influence departmental budgets in this budget cycle by clarifying their role in financial strategy; testing the approach is pending due to scheduling.
- PSP updates (Bruce Wulkan):
 - The Action Agenda will be adopted by the Leadership Council June 30.
 - Implementation strategies:
 - May 18th Floodplains draft implementation strategy
 - May 24th: Land development implementation strategy
 - PSP is hosting a partner engagement meeting to gather input on legislative agenda for next session on May 19. Bruce will report back.
 - Strategic Initiative Advisory Teams (SIATs) membership is nearly decided. PSP is responding to an RFP from EPA for the next Action Agenda by May 23.
 - There will be a formal input process for review of the Action Agenda process. Peter Best has already begun planning for the 2018 Action Agenda.
 - WRIA 9 is developing a stormwater strategy for the watershed; the LIO should use data and information from the project.
- Seed money update (Allan Warren):
 - An RFP for video work was issued to create four videos instead of one, a 3-5 min video overall, then 3 more specific, shorter videos.
 - Added to existing funding for ads on transit to expand north of Pierce County using same artwork. Should have results late summer early fall.
- Member updates:
 - Annette Frahm reminded the group that there is no more PSP funding for ECO Nets after June with no other funding source identified. The Pierce ECO Net is dissolving, might warrant inclusion in the LIO profile.

Wrap-up & Adjourn

Meeting adjourned at 2:34 pm.

South Central Action Area Caucus Group Vision Statement

Advance the recovery of a resilient Puget Sound ecosystem through local approaches and partnerships that are innovative, measurable, sustainable, and effective.

South Central Action Area Caucus Group – Website Purpose

The South Central Action Area Group is the Local Integrating Organization (LIO) for Puget Sound Recovery and was officially recognized by the Puget Sound Partnership's Leadership Council in 2010. The South Central Action Area is located in the Central Puget Sound region and is responsible for integrating efforts to advance the Action Agenda of the Puget Sound Partnership. The South Central Action Area is one of several local governments, tribes, non-profit organizations, watershed, marine resource, and salmon recovery groups, interest groups, businesses, educational organizations, and citizens are collaborating to develop and coordinate local integrating organizations that foster implementation of Action Agenda priorities.

The local integrating organizations enable communities to guide the implementation of Action Agenda priorities at an ecosystem scale, and to prioritize local actions for investment.



To: South Central Action Area LIO Caucus Group
From: Laura Blackmore, Principal
Date: February 2, 2015
Subject: **2015 Work Plan Proposals**

Two sources inform the South Central Action Area LIO Caucus Group's list of potential actions for 2015: the suite of near-term actions (NTAs) you developed for the 2014 Action Agenda, and the requirements of the contract with the Puget Sound Partnership (PSP) that funds LIO coordination and activities.

This document presents draft proposals for a work plan that will fulfill the contract requirements and achieve several of the goals you set last year. Budget limitations mean that we are unlikely to be able to achieve all of your goals by the end of 2015; in the Action Agenda update process the LIO Caucus Group can consider changing the timelines for those actions that remain. The final page presents proposed dates for South Central Action Area LIO Caucus Group meetings in 2015.

I. Summary of Proposals

The draft proposals for the 2015 work plan are as follows:

1. Continue to use the South Central Action Area LIO Caucus Group meetings as a forum to share information.
2. Conduct a survey of jurisdictions to confirm their stormwater operations and maintenance best practices and to determine which they find to be most effective. Consider incorporating other research questions in the update of NTAs for the 2016 Action Agenda.
3. Continue to work at the regional level to ensure the LIO's voice is heard on important topics, such as repair of aging infrastructure, work on the EPA funding model, and the Ecosystem Coordination Board (ECB) Funding Strategy recommendations, among other topics.
4. Fulfill our contractual requirements, especially those related to updating the local Action Agenda pressures, near-term actions and performance measures.

II. Implement Near-Term Actions

This section presents proposals for implementing many of the near-term actions the South Central LIO agreed to in the most recent version of the Action Agenda. These proposals would be in addition to the work needed to fulfill PSP contract requirements, which are listed in the next section.

Use Caucus Group Meetings to Host Forums and Share Information

Several of the NTA performance measures include hosting meetings or forums to share information, including the following:

- SC1: By May 2015, host two meetings to review and share incentives and model regulations.
- SC9: By December 2015, host two forums that highlight successful integration of low impact development/green stormwater infrastructure into local regulations.
- SC10: By December 2015, host one forum on opportunities for acquisition and redevelopment of vacant, orphaned, or abandoned property.

Many of the NTAs call for using the South Central LIO Caucus Group as a forum for sharing useful information about strategies that work and areas that need additional attention. Examples of these performance measures include the following:

- SC2: Water Resource Inventory Areas (WRIAs) report semi-annually on the list of high priority land acquisitions as defined in their salmon recovery plans.
- SC6: Provide information to the Legislature on high priority stormwater retrofit projects.
- SC13: Report on Building Cities in the Rain to the Puget Sound Regional Council Growth Management Policy Board, and to the ECB

The NTAs call for several other reporting requirements; these are listed in the full table of NTAs and on the work plan spreadsheet that accompanies this memo.

Proposal:

- Other groups are doing good work within the LIO's geography to highlight successful integration of low impact development/green stormwater infrastructure into local regulations. (For a good example, see <http://www.ecobuilding.org/olympia/vision2action-series/adapting-to-low-impact-development-tacoma>.) The LIO could advertise these workshops and forums to its members, rather than creating something new itself.
- The LIO could use its regular meetings to host two other forums: one on opportunities for acquisition and redevelopment of vacant, orphaned, or abandoned property, and one on other incentives or model regulations.
- The South Central LIO should continue to use its regular meetings to share information on as many NTAs as possible throughout the year.

Implement LIO Research Project

The South Central LIO is justly proud of the Building Cities in the Rain project, which continues to make excellent progress. The LIO could consider identifying one additional project to implement using a portion of its coordination funding. Several NTA performance measures reference research the LIO could conduct, including the following:

- **Option 1:** develop and implement a survey of jurisdictions in the LIO to determine which have regulations that comply with the FEMA Biological Opinion (SC5).
- **Option 2:** develop and implement a survey of jurisdictions in the LIO to determine which are implementing best management practices for stormwater operations and maintenance (SC7).
- **Option 3:** identify next steps to support carrying out stormwater retrofit planning and projects throughout the South Central Puget Sound area (SC6).
- **Option 4:** develop and implement one study of potential funding mechanisms. The LIO could choose to explore options for using existing funding mechanisms to assist landowners who are willing to implement aquatic area enhancement protection and enhancement practices (SC4), or identify and analyze funding mechanisms that incorporate existing and new funding for stormwater retrofit projects (SC6).

Please note two important items:

- We will need to keep the survey or research study simple to accomplish it within our existing budget.
- Budget constraints mean that the LIO will need to choose among these options, meaning that it's unlikely the other options will occur this year unless another partner is working on them already.

Proposal: the South Central LIO could implement Option 2, the survey of jurisdictions to determine which are implementing best management practices for stormwater operations and maintenance.

Since permit holders report this information to Ecology, the LIO could seek to obtain this information from Ecology, check its accuracy with permit holders, and ask questions about which practices the jurisdictions find most effective. This information would help report on the actual implementation and effectiveness of important actions to protect Puget Sound, and could identify model practices that other jurisdictions could tailor and adopt. The LIO could share its findings and the survey instrument with other LIOs, the Leadership Council, the ECB, and state and federal partners such as Ecology and EPA.

The LIO also could consider using part of one its regular meetings to work on Option 3 – identifying next steps for stormwater retrofit planning.

Work at the Regional Level

The South Central Action Area LIO Caucus Group is an important part of the regional infrastructure to recover Puget Sound. The LIO could continue to work at the regional level on important NTAs and topics, ensuring that the LIO's voice is heard. Options include, but are not limited to, the following:

- **Option 1:** Advocate for funding to repair aging infrastructure, including the Ballard Locks, Howard Hanson Dam, and the Buckley Diversion Dam (SC3). Addressing this failing infrastructure is important not only for salmon recovery, but also for protecting human safety and our economy. The South Central LIO could champion this cause with the ECB, the Leadership Council, and the Washington State Congressional delegation. The LIO could support information sessions about the problems and proposed solutions, give presentations to interested groups, or participate in the Puget Sound Lobby Day planned for March 18 in Washington DC, among other activities.

- **Option 2:** Work with our fellow LIOs, EPA, and the Puget Sound Partnership to develop an interim and long-term approach to developing implementation strategies as part of the proposed NEP funding model. The EPA has asked the PSP to develop implementation strategies, but their format and the process to create them has yet to be defined. Participating in defining them could help support many of your NTAs which call for increasing funding for projects important to the LIO.
- **Option 3:** Support the efforts of the Ecosystem Coordination Board (ECB) Funding Subcommittee to implement the recommendations of the ECB's Funding Strategy.
- **Option 4:** Other? *TBD in conversation with the members of the South Central LIO.*

Proposal: The South Central LIO could choose to work on all of these options through participation in work groups, lending its support to partner actions, and other means.

III. Fulfill Contract Requirements

As mentioned above, King County holds a contract with the Puget Sound Partnership for LIO management that includes four tasks:

5. Maintain, organize, facilitate, and administer a local integrating organization
6. Coordinate local implementation of the Action Agenda
7. Performance Management
8. Update local Action Agenda pressures, near-term actions and performance measures

The LIO Coordinator will fulfill the duties listed under Task 1. The LIO's activities described above to implement the NTAs will fulfill Task 2. The quarterly reports and annual financial report, prepared by the LIO Coordinator with assistance from LIO partners, will satisfy Task 3. We delivered our most recent quarterly report on January 30, and the financial report is due June 30, 2015.

Task 4 has four subtasks:

- a. Adopt a process to prioritize and sequence local near-term actions within the 2016 Action Agenda according to guidance provided by the PSP and reflecting a common standard of practice across the LIOs. This process is due by June 30, 2015.
- b. Use standardized Soundwide terminology in LIO planning. This terminology includes the Soundwide Pressure Taxonomy and Soundwide Action Agenda sub-strategies.
- c. Incorporate watershed-scale Chinook monitoring and adaptive management work for watersheds within the LIO geography into LIO planning and prioritization per guidance provided by the PSP.
- d. Provide to PSP a prioritized list of local ecosystem pressures based on the LIO's analysis of the Puget Sound Pressure Assessment. This prioritized list is due by September 30, 2015.

The LIO will need to address the Task 4 deliverables. I will create a more detailed work plan proposal for Task 4 once the guidance is available from PSP.



IV. Proposed Meeting Dates

The South Central LIO's Coordinating Group proposed scheduling the LIO Caucus Group meetings about a week in advance of the ECB meetings. The table below shows the ECB's 2015 meeting schedule, and possible dates for South Central Caucus Group meetings. I will check with Renton City Hall on room availability and send out a Doodle poll to confirm the best dates for each meeting.

ECB Meeting Date	Proposed South Central LIO Meeting Dates		
February 19	February 9		
May 21	May 11	May 12	May 13
July 8	June 29	July 1	July 2
September 17	September 8	September 9	September 10
November 12	November 2	November 4	November 6

Key
Stormwater Strategic Initiative
Habitat Strategic Initiative
Shellfish Strategic Initiative
Submitted via another LIO

TABLE 1. APPROVED AND SUBMITTED LOCAL NTAS

#	Owner	Local NTA Title	Description	Cost Estimate
1	American Farmland Trust	South Sound Discovery Farms	This project will create a program for quantitatively measuring and documenting water quality benefits of different BMPs in the Pacific Northwest through the establishment of Discovery Farm research sites on farmland in the Green Duwamish watershed.	\$327,261
2	Cascadia College	Salmon Safe Green Stormwater Infrastructure	Cascadia College and UW Bothell are working together to retrofit two bioswales on campus in order to improve water quality in North Creek, renew Salmon-Safe certification and enhance the campus' ability to serve as a living laboratory.	\$99,000
3	Citizens for a Healthy Bay	Forage Fish Survey and Baseline Habitat Map for Commencement Bay	Conduct forage fish survey and baseline habitat mapping for Commencement Bay for identification, protection, and restoration of habitat which will provide critical information in the event of an oil/chemical spill and opportunities for citizen science.	\$85,000
4	Citizens for a Healthy Bay	Student Stewardship Program	The Student Stewardship Program will engage middle and high school students in citizen science and hands-on projects to become environmental stewards in the Puyallup River Watershed including Commencement Bay.	\$70,000
5	City of Black Diamond	Enhanced Street Sweeping Program in Black Diamond	The City would like to increase the number of times City streets are swept from 2-3 times/year to 18/year. This would allow the City to sweep at least monthly. Sweeping will allow the City to prevent pollutants, such as phosphorus, local water bodies.	\$50,000
6	City of Kent	Green River Watershed Education Center	Design, build and staff an education center to teach and enlighten citizens about the Green River watershed's fragile natural resources and inspire them to take individual actions to protect, conserve and restore the Green's water quality and wildlife.	\$250,000

#	Owner	Local NTA Title	Description	Cost Estimate
7	City of Kirkland	132nd Square Park Retrofit Facility	The 132nd square park retrofit facility would provide water quality treatment, flow control and infiltration for approximately 48.5 acres of single-family residential and right-of-way area in the northeast corner of the Totem Lake Basin.	\$4,505,831
8	City of Kirkland	Forbes Creek/North Rose Hill Sub-basin Retrofit Planning	This project plans conducts planning for stormwater retrofit of a portion of the Forbes Creek watershed that comprises 13% of its area and yet contributes 30% of its peak flows. Stormwater retrofits will serve an area not likely to redevelop.	\$337,400
9	City of Kirkland	Technical & financial assistance for private property LID retrofits in Kirkland	This NTA uses technical assistance and rebates to encourage LID retrofit implementation on commercial and residential property, leading to reduction of volume of stormwater runoff into Kirkland's local water bodies.	\$265,000
10	City of Sammamish	Ebright Creek Fish Passage Project	The NTA project area includes the replacement of aging, double, concrete culverts on East Lake Sammamish Parkway to re-establish full levels of passage for aquatic species in Ebright Creek, especially native kokanee and other salmonids	\$900,000
11	City of Sammamish	George Davis Creek Fish Passage Project	The NTA project area includes the replacement of a culvert on East Lake Sammamish Parkway to re-establish full levels of passage for aquatic species in George Davis Creek, especially native kokanee and other salmonids.	\$900,000
12	City of Sammamish	Zaccuse Creek Fish Passage and Stream Restoration	The NTA project area includes (1) the replacement of an aging, concrete culvert on East Lake Sammamish Parkway to re-establish full levels of passage for aquatic species in Zaccuse Creek, especially native kokanee and other salmonids. The project area also includes (2) the re-location and restoration of approximately 200 feet of Zaccuse Creek within and upstream of the new culvert.	\$1,185,000
13	City of Seattle - DPD	Green Shores for Homes	Green Shores for Homes, an incentive based program to help residential property owners remove shoreline armoring and increase habitat and water quality at the site.	\$150,000
14	City of Seattle - DPD	Habitat Evaluations Procedures (HEP)	Habitat Evaluations Procedures measures the impacts from development on the ecological function of the shoreline. The Program quantifies the shoreline habitat into habitat units that represent the ecological value of the shoreline environments.	\$150,000
15	City of Seattle - Parks	Myrtle Edwards Park Shoreline Improvement	Remove shoreline armoring at Myrtle Edwards Park.	\$75,000

#	Owner	Local NTA Title	Description	Cost Estimate
16	City of Seattle - Parks	Smith Cove Park Shoreline Restoration	Remove shoreline armoring at the newly expanded Smith Cove Park.	\$750,000
17	City of Seattle - SPU	Green Stormwater Infrastructure for Schools and Faith-based Organizations	Green Stormwater Infrastructure for Schools and Faith-based Organizations	\$2 million
18	City of Seattle - SPU	Pilot Testing for South Park Water Quality Facility	The project will design and construct a stormwater treatment facility to clean runoff from the largely industrial area in the northeast part of the South Park neighborhood. Treated runoff will be discharged to the Duwamish River.	\$2,793,000
19	City of Seattle - SPU	Culvert Repair and Barrier Replacement Program	This program routinely prioritizes culverts for repair or replacement with fish passable structures. Several culverts in Thornton Creek and other watersheds are being initiated.	\$2.9 million
20	City of Seattle - SPU	Cedar River Stewardship-in-Action	Stewardship-in-Action (SiA) is a private-public partnership working to restore and maintain riparian ecosystems in the Cedar River Watershed by reestablishing native plant communities and engaging landowners in the long-term stewardship of their property.	\$525,000
21	City of Seattle - SPU and Parks	Lowman Beach Park Seawall Removal	Remove an existing seawall, regrade the shoreline and daylight a remnant of Pelly Creek.	\$200,000
22	City of Seattle - SPU and Parks	Scheurman Creek Riparian and Marine Shoreline Restoration	This NTA is to develop a conceptual design and cost estimates for stream mouth restoration of Scheurman Creek in Discovery Park, Seattle. It would provide new fish access to 1,200 feet of protected, high quality habitat.	\$150,000
23	City of Shoreline	10th Ave NE Drainage Improvement Projects	This project will improve water quality and reduce flooding along 10th Ave NE between NE 165th St and NE 175th St by converting up to 1,000 linear feet of existing ditches into bioretention facilities and installing other stormwater improvements.	\$660,000
24	City of Shoreline	Hidden Lake Dam Removal Project	This project will include the removal of the Hidden Lake Dam and re-establishment of Boeing Creek at the project location. The project will improve fish passage. Improved sediment transport will benefit near-shore habitat at Boeing Creek mouth.	\$4,465,000
25	City of Shoreline	25th Ave NE (Ballinger Creek) Flood Reduction Project	The project will replace approximately 550 linear feet (LF) of culvert along 25th Ave NE downstream of Brugger's Bog Park as well as the 74-foot culvert crossing at NE 195th St, designed to pass 100-year peak flows and provide fish passage.	\$5.3 million

#	Owner	Local NTA Title	Description	Cost Estimate
26	City of Shoreline	Enhanced Maintenance for Stormwater Mitigation-Sweeping and System Cleaning	Street sweeping will be accomplished using high efficiency sweepers. System cleaning will be accomplished by vactoring pipes and catch basins as well as excavating ditches. All quantities of sediment removed will be tracked and properly disposed of.	\$409,700
27	City of Tacoma	Enhanced Stormwater System Maintenance for Mitigation	System cleaning will be accomplished by scouring and vactoring pipe. All quantities of sediment removed will be tracked and properly disposed of. The jurisdiction will prioritize areas to receive enhanced maintenance according to land use and traffic levels for sweeping; and system age for cleaning so that the greatest amount of sediment and associated pollutants are collected and thus not allowed to enter the receiving waters.	\$350,000
28	City of Tacoma	Permeable Pavement Standards Development Based on Lessons Learned	This project will field test new permeable mix designs and new material testing procedures, to further pavement durability and increase confidence in permeable pavements.	\$500,000
29	City of Tukwila	Riparian Revegetation Along the Green/Duwamish River	This NTA proposes to provide much-needed shade over segments of the Green/Duwamish River.	\$119,678
30	City of Tukwila	Stormwater Outfall Water Quality Retrofits	This NTA proposes to design water quality retrofits for approximately four (4) stormwater outfalls that release untreated stormwater directly into the Green/Duwamish River.	\$287,500
31	City of Tukwila	Riverton Creek Flapgates Removal Project	The Riverton Creek Flapgates Removal Project will remove two flapgates which are partially blocking fish passage between the Duwamish River and Riverton Creek.	\$833,475
32	City of Woodinville	134th Ave Fish Passage Improvement Project	Replace the damaged culverts at 134th Ave and Little Bear Creek with fish passable culverts and replace the existing road with a bridge to allow for the new culverts.	\$1,120,000
33	ECOSS	Spill Kit Incentive Program and Multi-Lingual Technical Assistance	ECOSS will expand its spill kit outreach and education to new businesses and cities in the South Central Puget Sound region, and provide Multi-Lingual Technical Assistance on behalf of local jurisdiction authorities to businesses.	\$160,000
34	Environmental Science Center	Salmon Heroes: Field Based Education Program for Improved Water Quality	Expand a field-based education program to bring Salmon Heroes to more students across the South Central Puget Sound area, particularly in low-income areas.	\$91,500
35	Forterra	Bear Creek and Little Bear Creek Riparian Improvement Project	Restoration of contiguous riparian habitat on Bear Creek, its tributaries and lakes and Little Bear Creek using a multi-jurisdictional approach on public and private lands to protect, enhance and recover ecosystem processes and function.	\$300,000

#	Owner	Local NTA Title	Description	Cost Estimate
36	Futurewise	GreenLink Watershed Plans for Local Jurisdictions in Puget Sound	Two-year watershed-based planning and public engagement projects, using existing data, that identify practical, implementable green infrastructure projects and recommendations to improve water quality, habitat, and community assets in local jurisdictions.	\$248,700 per jurisdiction
37	Futurewise	Copper in Compost Research for Source Control and LID Techniques	Analysis of sources of copper in commercial compost that is used in bioretention stormwater facilities in order to provide data to assist in source reduction so that stormwater flowing through these facilities have reduced rather than increased copper.	\$250,000
38	Futurewise	Phthalates Research for Source Control	Analysis of phthalates in external use products and in samples from publicly accessible locations in order to improve source control for phthalates in the stormwater pathway that may recontaminate sediment cleanup sites in Puget Sound.	\$176,900
39	Futurewise	Shore Friendly Incentives Program for Armor Reduction in King, Snohomish and Pierce Counties	Implementation of Shore Friendly awareness and incentives program to motivate armor removal on marine and freshwater residential shorelines in King, Snohomish and Pierce Counties (and other counties).	\$375,000 per county
40	King Conservation District	Marine Shoreline Technical Assistance & Project ID for Home/Landowners	Expand the KCD Marine Shoreline Improvement Program for Homeowners/Landowners by providing technical assistance and identifying marine riparian and bulkhead removal projects with private homeowners/landowners on the KCD site visit waiting list.	\$318,300 - 438,300
41	King Conservation District	Urban Tree and Forest Canopy Cover Toolkit	Expand the KCD/SCA/Seattle/Bellevue/KC Tree & Forest Canopy Cover Initiative to implement urban forest health management and tree canopy cover programs in more King County Jurisdictions, neighborhoods and priority geographic areas.	\$470,500
42	King Conservation District	Second and Pussyfoot Creeks Community Project	This NTA extends a proven sub-basin targeted outreach model to two new priority sub-basins of the White River Watershed. The outreach focuses on water quality, water quantity and salmon habitat-related technical assistance, education, financial assistance with farmers and livestock owners.	\$225,000
43	King County	Regional Implementation of the Puget Sound Starts Here Campaign	This NTA will enhance the Puget Sound Starts Here campaign to raise public awareness of the Sound's health and provide umbrella support and resources for on the ground behavior change programs to promote best practices that support ecosystem recovery.	\$125,000

#	Owner	Local NTA Title	Description	Cost Estimate
44	King County Flood Control District	Lower Russell Road Levee Setback and Habitat Restoration	The Lower Russell Road Levee Setback and Habitat Restoration Project will replace the existing flood containment system along the east bank of the Green River between RM 17.8 and 19.2 to improve flood protection and restore riparian and aquatic habitat.	\$39 million
45	King County Noxious Weed Control Program	Green-Duwamish River Invasive Species Removal and Restoration	Restoration planting and invasive species removal from the the Green and Duwamish Rivers to Elliott Bay by a multi-jurisdictional public-private partnership on public and private lands to protect enhance and recover ecosystem processes and function.	\$241,000
46	King County Noxious Weed Control Program	Mercer Island Riparian and Shoreline Restoration	Restoration planting and invasive species removal from Mercer Island by a multi-jurisdictional public-private partnership on public and private lands to protect enhance and recover ecosystem processes and function on shorelines, wetlands, and waterways.	\$281,400
47	King County WLRD	Spring Beach Acquisition	This acquisition on SW Vashon Island would permanently protect 23.75 acres including 677 feet of marine shoreline, bluff backed beach, creeks and wetland.	\$674,000
48	King County WLRD	Piner Point Acquisition and Restoration	This acquisition will purchase four parcels, almost 8 acres including 425 feet of bluff backed beach. This acquisition would allow for the future restoration of the site including the removal of 235 feet of creosote piling bulkhead, retaining walls and structures.	\$1,600,000
49	King County WLRD	Dockton Park Bulkhead Removal	The Dockton Park Bulkhead Removal project will remove about 210' of concrete bulkhead from bluff backed beach in the Maury Island Aquatic Reserve.	\$200,000
50	King County WLRD	Don't Drip and Drive Vehicle Leak Reduction Program	Don't Drip and Drive is a multi-prong integrated regional program to reduce the amount of toxic contaminants from automobile leaks in stormwater, through research, development of partnerships and tools and implementation of a behavior change campaign.	\$1,275,000
51	King County WLRD	George Davis Creek Habitat Assessment	The habitat assessment will determine the extent, quantity, and quality of potential spawning and rearing habitat features for aquatic species, especially for native kokanee and other salmonids.	\$45,000
52	King County WLRD	Puget Sound Stormwater Infrastructure Framework	With a comprehensive map of its stormwater system a jurisdiction can maintain their system more efficiently. With a common regional mapping system, jurisdictions can work together, sharing information and resources, to better manage stormwater.	\$85,000

#	Owner	Local NTA Title	Description	Cost Estimate
53	King County WLRD	King County Natural Yard Care Behavior Change Campaign	This extends Regional Natural Yard Care outreach to King County. The county is the state's largest and 2015 new residents exceeded projections. Outreach on home practices is critical to water quality and as an introduction to environmental issues.	\$235,000
54	King County WLRD	Regional Illicit Discharge Detection Training	This proposal is designed to provide continued illicit discharge detection trainings to staff who administer stormwater management programs in western Washington, and provide updates to the IC/ID Field Screening and Source tracing Guidance Manual.	\$125,000
55	King County WLRD	Communicating Best Practices for Underserved Audiences	Ethnic media are overlooked bridges to regional communities. By engaging community media we can offer access to information, examples of practices, build capacity and networks, and gain mutual understanding to engage communities in environmental issues.	\$300,000
56	King County WLRD	Howard Hanson Dam Fish Passage Facilitation and Coordination	Facilitation and coordination of Howard Hanson Dam downstream fish passage for stakeholder and public involvement and design input.	\$250,000
57	King County WLRD	Chinook Wind Mitigation Project	To design and construct a mitigation project in the transition zone of the Duwamish River. The intent is to fund the project entirely with mitigation fees collected through KC's in lieu fee mitigation program.	\$ 6 million
58	King County WLRD	Regional Spill Reporting Hotline	Spills around Puget Sound happen with regularity, but it is not always clear who to contact when spills happen. A regional spill reporting hotline would eliminate the guesswork and notify the appropriate jurisdiction of a spill or discharge immediately.	\$210,000
59	King County WLRD	Cold Water Refugia Prediction & Identification	Cold Water sources/refugia prediction and verification pilot project	\$75,000 - 150,000
60	King County WLRD	Next-phase protection and restoration plans for select B-IBI basins	This NTA calls for identifying stressors affecting B-IBI scores and developing basin-specific plans for 10 basins needing protection (to maintain excellent scores) and three basins needing restoration (to improve from fair to good).	\$510,700
61	King County WLRD	Gold Creek Tributary 88 Small Basin Retrofit Planning and Design	This project will create a basin-wide stormwater retrofit plan for the Gold Creek Tributary stream basin; develop predesigns for at least two identified retrofit projects and 90% design plans for at least one retrofit project.	\$357,616
62	King County WLRD	Re-greening the Green: Acquisition Easements and Revegetation	Acquire easements and plant tall, native shade trees on strategically important properties on the Lower Green River to reduce high water temperatures and low dissolved oxygen.	\$591,000

#	Owner	Local NTA Title	Description	Cost Estimate
63	King County WLRD	Invertebrate supplementation as restoration action in select B-IBI basins	This NTA calls for facilitating the colonization of invertebrates in select basins where B-IBI scores are lower than expected. If B-IBI scores improve and remain high, no other restoration actions may be needed.	\$238,000
64	King County WLRD	WRIA 9 Marine Shoreline Monitoring and Compliance Project	This project will undertake surveys of the marine shorelines of WRIA 9 for basic monitoring of shoreline condition as well as to understand if compliance rates have changed due to pilot project in 2012-2013	\$57,000 - 100,000
65	King County WLRD	Second Phase of USGS Pesticide in Stream Study	Second phase of USGS Pesticides Detected in Urban Streams During Rainstorms and Relations to Retail Sales of Pesticides in King County, in order to change behavior around pesticide use in the region.	\$165,000
66	King County WLRD & Public Health Seattle	Expand Septic System Management in King County Required by RCW 70.118A	Expand the Pollution Identification and Correction (PIC) efforts in the Quarter Master Harbor Marine Recovery Area (MRA) to other MRAs located on Vashon Island and polluted water bodies in King County.	\$500,000
67	Mid Sound Fisheries Enhancement Group	Soos Creek Stewards Program	Soos Creek Stewards is a program that will improve water quality by engaging the community to install Early Action Best Management Practices (BMPs) on streamside properties. This program's products will be implemented on-the-ground BMPs, more knowledgeable streamside landowners, and a team of trained watershed stewards.	\$230,000
68	Mountains to Sound Greenway Trust	Issaquah Creek Basin Riparian Restoration	The Mountains to Sound Greenway Trust, with the City of Issaquah, WA State Parks, King County, the WA Dept. of Natural Resources, and private landowners, will continue a comprehensive campaign to restore riparian habitat in the Issaquah Creek basin.	\$200,000
69	Mountains to Sound Greenway Trust	Mountains to Sound Greenway Trust Next Generation Education Program	This program seeks to plant the seeds for a sustainable future by providing 4th-10th grade students with hands-on, inquiry-based science curriculums aligned with Washington state learning standards that dovetail with what students learn in the classroom.	\$90,000
70	Pierce Conservation District	Partnership Model for Depave and LID Retrofits	Development of a Depave and Low Impact Development retrofits model and Technical Assistance Guide to allow easy adoption of the program throughout Puget Sound.	\$242,000
71	Pierce Conservation District	Riparian Restoration Along South Prairie Creek	The District will restore 18 acres/1 stream mile of riparian habitat within 200 feet of South Prairie Creek in partnership with South Puget Sound Salmon Enhancement Group.	\$200,000
72	Pierce Conservation District	Pierce County Implementation of Puget Sound Starts Here	This proposal would support the activities of the Pierce ECO Net by funding group coordination, collaborative community education efforts, professional development for network members, and local Puget Sound Starts Here advertising.	\$75,000

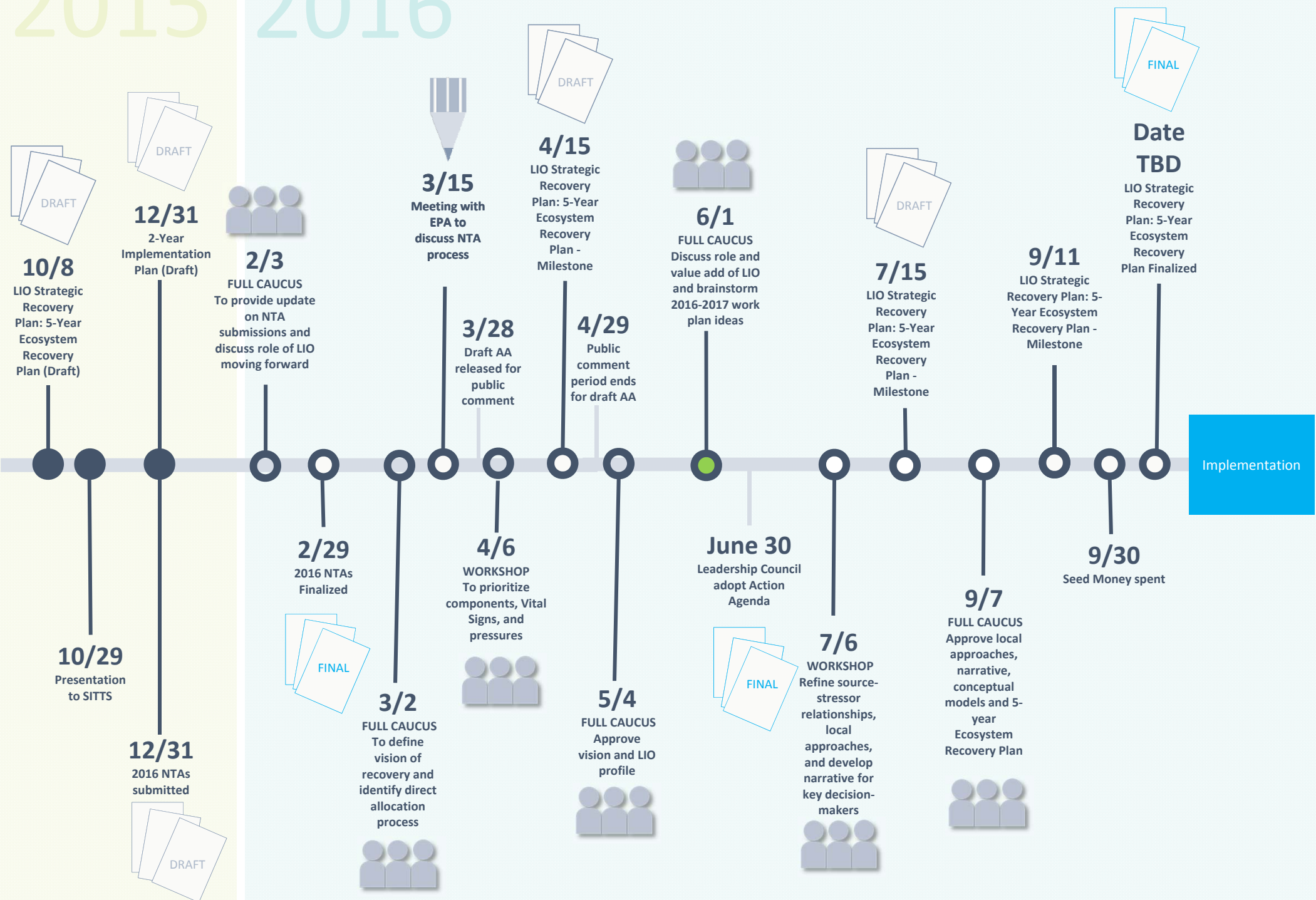
#	Owner	Local NTA Title	Description	Cost Estimate
73	Pierce County Lead Entity	WRIA 10 Riparian/Land Cover Change Analysis and Decision Support System	Development of a riparian and land cover change analysis and decision support system for WRIA 10 Puyallup Watershed.	\$195,000
74	Pierce County Public Works - Surface Water Management	Swan Creek Culvert Replacement and Streambank Stabilization	Conduct feasibility study of culvert replacement and streambank stabilization measures utilizing wood features; to emulate natural stream channel habitat with pool-riffle, plane-bed or step-pool sequencing.	\$250,000
75	Pierce County Public Works - Surface Water Management	Woodland and Rody Stream Corridor Improvements	Woodland and Rody Creek channels, are both eroding severely creating downstream sedimentation. This improvement includes roughening the channels by installing large porous wooded debris structures, boulders, cobbles and gravels, and riparian vegetation.	\$2.5 million
76	Puget Soundkeeper	Stormwater BMPs for non-NPDES Businesses	Stormwater BMP Education and Implementation for Non-NPDES Permitted Businesses in the Green/Duwamish Watershed	\$95,000
77	Puget Soundkeeper	Middle school stormwater outreach in urban South Central LIO	This program will target middle school students in the South Central LIO for hands-on education on the health of Puget Sound, and stormwater science, issues, and solutions.	\$90,200
78	Salmon-Safe Puget Sound	Clean Water for Salmon: Accelerating Market Shift to Salmon-Safe	Salmon-Safe will incentivize “beyond compliance” stormwater management, habitat conservation, and water quality protection at 25 new development projects, more than doubling the Salmon-Safe “zero watershed impact” footprint in the greater Seattle area.	\$97,200
79	Seattle 2030 District	Reducing Stormwater Impact from Downtown District of Seattle	The Seattle 2030 District Green Stormwater Program will work with building owners and developers in the downtown area of Seattle to manage stormwater peak discharge by 50% below the District baseline by 2030, with an incremental target of 20% by 2020.	\$320,000 - 375,000
80	Snohomish Conservation District	Innovative Study of Alternative Working Riparian Buffers that Provide Equivalent or Better Habitat and Water Quality Benefit	Multi-year study in agricultural lands testing plant pallets, variable buffer widths, and other factors in order to establish potential working buffer standards which provide equivalent or better habitat/water quality benefits than current practices and increase farmer interest and participation.	\$899,100
81	Snohomish Conservation District	Perrinville Creek Basin Stormwater Retrofits	Perrinville Creek is a priority watershed within both City of Edmonds and City of Lynnwood. This NTA will implement 3 key projects already identified, and provide institutional capacity in LID and public-private partnerships.	\$153,000

#	Owner	Local NTA Title	Description	Cost Estimate
82	Snohomish County Surface Water Management	Snohomish County Natural Yard Care Behavior Change Campaign	Implement a Natural Yard Care (NYC) Behavior Change campaign to decrease toxic loading in Snohomish County. A regional NTA for NYC advertising is being submitted by King County and aligns with this Snohomish County-focused NTA.	\$231,483
83	Snohomish County Surface Water Management	Snohomish County Implementation of Puget Sound Starts Here	Snohomish County and partners propose to launch a local-scale Puget Sound Starts Here campaign in the South Snohomish County area to complement the regional campaign and better poise residents to adopt behavioral changes protective of water quality.	\$145,500
84	US Forest Service Urban Waters Partnership Program	WRIA 9 "All Lands, All Hands" Workshop	This project will organize and facilitate an "All Lands, All Hands" workshop with municipalities, state and federal agencies, tribes, NGOs and other relevant groups to discuss landscape-scale restoration needs (with focus on habitat restoration that yields multiple benefits) and opportunities within the WRIA 9 sub-basin.	\$20,000
85	Weed Warriors	Village Green Rain Garden and Stormwater Education	Village Green Rain Garden is replicable restoration and educational outreach project engaging a diverse community, students and adults, in stormwater education, pollution control, and rain garden creation, including elements from the PSSH program.	\$64,600
86	WRIA 8	Ballard Locks infrastructure updates to improve fish passage	Implement priority Ballard Locks infrastructure improvements to update failing machinery and structures to support fish passage and facility operations.	\$5,000,000
87	WRIA 8	Improve temperature and dissolved oxygen in the Lake Washington Ship Canal	Develop lasting solutions to reduce temperatures and increase dissolved oxygen levels in the Lake Washington Ship Canal during key salmon migration periods.	\$175,000
88	WRIA 8	Reduce elevated water temperatures in the Sammamish River	Develop lasting solutions to reduce temperatures in the Sammamish River during juvenile and adult salmon migration periods.	\$175,000
89	WRIA 9	Duwamish Basin Steward	King County's WRIA 9 Salmon Recovery Team would hire a part-time Duwamish Basin Steward to implement, advocate for, and track Duwamish habitat improvements that further local and regional salmon recovery efforts.	\$192,208
90	WSU Snohomish County Extension	Model Volunteer Program for Oil Spill Response / Assessment	This project proposes to create and implement a model community-based oil spill assessment and respond effort that will serve as a model for other regions and expand citizen science data collection and quality.	\$44,810

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91	WSU Snohomish County Extension	Pet Waste Reduction through Veterinary Clinic Outreach	This project will change dog owner behavior to encourage scooping, bagging and trashing pet waste by initiating over 16,000 conversations between vet clinic staff and clients, potentially removing over 136,000 pounds of fecal matter in one year.	\$85,069
92	WSU Snohomish County Extension	Urban Practices BMPs - Shore Stewards Landowner Assistance	This project will engage at least 600 households through workshops and on-going communications to change behaviors related to water conservation, stormwater pollution, marine and riparian habitat protection.	\$76,204
93	WSU Snohomish County Extension	Latino Stormwater and LID Outreach	The partners in the Latino Stormwater / LID Outreach Project intend to improve water quality conditions in selected southwest Snohomish County streams and lakes by increasing engagement with underserved local Latinos in stormwater pollution efforts.	\$76,185

2015

2016



LIO road to implementation (and funding)

Worksheet 3. Goals/Targets

Complete a hard copy of this worksheet if your LIO chooses not to work directly in Miradi.

Goals: Identify either quantitative or qualitative goals for a minimum of 3 components or describe how your LIO will contribute to the Vital Sign and associated target (if applicable); Identify either quantitative or qualitative goals for a minimum of 3 components or describe how your LIO will contribute to the Vital Sign and associated target (if applicable)

Vital Sign/Component	Regional Goal (by 2020)	Contribution Towards Target/Goal Statement
Floodplains	<p>Restore, or have projects underway to restore, 15% of degraded Puget Sound floodplain area.</p> <p>Have no net loss of floodplain function in any watershed.</p>	<p>By 2021:</p> <ul style="list-style-type: none"> Restore 430 acres of floodplain and 4 miles of levee setbacks Conduct assessments to identify future needs and priorities Engage private floodplain landowners through education and outreach initiatives to incorporate stewardship practices into their property decision making
Land Cover/Development	<p>Average annual loss of forested land cover to developed land-cover in non-federal lands does not exceed 1,000 acres per year.</p> <p>Loss of vegetation cover on indicator land base over a 5-year period does not exceed 0.15% of the 2011 baseline land area.</p> <p>268 miles of riparian vegetation are restored or restoration projects are underway.</p> <p>The proportion of basin-wide growth occurring within Urban Growth Areas is at least 86.5% (equivalent to all counties exceeding goal by 3%) and all counties show</p>	<p>By 2021:</p> <ul style="list-style-type: none"> Restore 31 net miles of riparian habitat, including marine shoreline riparian habitat Maintain UGA line and ensure that ≥87% of growth occurs within UGA Achieve no net loss of forest cover Offer private forest landowner and other sensitive area workshops and technical assistance programs to retain or restore vegetation 120 acres retained in forested condition and active stewardship through TA/FA programs, 6 parcels/landowners per year (Implement community based restoration stewardship activities through both governmental and non-governmental initiatives)

Commented [C1]: Is there a number of people that can be determined based on proposed NTAs that ranked well?

	an increase over their 2000-2010 percentage.	
Freshwater Quality	<p>At least 50 percent of all monitoring stations with suitable data have freshwater Water Quality Index scores of 80 or higher.</p> <p>100% of Puget Sound lowland stream drainage areas monitored with baseline BIBI Scores of 42-46 or better retain these “excellent” scores and mean B-IBI scores of 30 Puget Sound lowland drainage areas improve from “fair” to “good”.</p> <p>Achieve a decrease in the number of impaired waters (303(d) list) in Puget Sound freshwaters.</p>	<p>By 2021:</p> <ul style="list-style-type: none"> • Reduce toxics loading by treating 200 acres through retrofits • Enroll jurisdictions in the South Central LIO in a program to routinely sweep (with High efficiency sweepers) arterial streets <ul style="list-style-type: none"> ○ Target – all jurisdictions enrolled by 2021 ○ Target – 50% of arterials in enrolled jurisdictions are routinely swept ○ Matching funds are available to initiate and encourage participation ○ Quantities of sediment collected are tracked and compiled in a regional database ○ A packet of standard specifications and operating procedures are available for jurisdictions to use in contracting with sweeping providers. ○ Existing condition monitoring data is compiled and analyzed to compare with future results to see if we are making a difference • Improve flashiness and low flows in small streams through implementation of infiltration techniques and private landowner and contractor education on green stormwater infrastructure techniques • Expand the reach of the Puget Sound Starts Here campaign and resulting increased awareness of stormwater pollution issues

		<ul style="list-style-type: none"> • Identify which local governments have active or completed projects to restore creek reaches; consider which might be appropriate for using B-IBI as an indicator of restoration effectiveness • Implement one experiment to test the potential to increase B-IBI using recolonization (similar to planting vegetation to recover riparian areas) • Seek funding support to further develop the Stream Benthos Database
Shoreline Armoring	<p>From 2011 to 2020, the total amount of armoring removed is greater than the total amount of new armoring in Puget Sound.</p> <p>Soft shore techniques are used for all new and replacement armoring, unless it is demonstrably infeasible.</p> <p>Feeder bluffs receive strategic attention for removal of existing armoring and avoidance of new armoring.</p>	<p>By 2021:</p> <ul style="list-style-type: none"> • Remove a greater amount of shoreline armoring than new armoring added in the LIO's marine nearshore and Lake Washington and Lake Sammamish • Restore 10,700 feet of marine shoreline and 7 pocket estuaries, and protect 4 miles of marine shoreline. • Improve implementation, compliance, and enforcement of updated Shoreline Master Plans • Protect and restore exceptional feeder bluffs as defined by PSNERP • Offer xxx workshops/outreach/technical assistance to private landowners on alternatives to traditional armoring techniques.
On-site Sewage	<p>Expand designations of marine recovery areas or designation of other areas with equivalent enhanced operation and maintenance to 90% of marine shorelines not primarily served by sewers.</p>	<p>By 2021:</p> <ul style="list-style-type: none"> • Continue work in Vashon Marine Recovery Area and Poverty Bay Recovery Area and expand Vashon Marine Recovery Area and Poverty Bay Recovery Area • Expand septic system management into in priority TMDL areas, when resources become available

Commented [GM2]: Do we want to add information about loan program? If so, let's discuss appropriate terminology.

	<p>All on-site sewage systems in marine recovery areas and other areas with equivalent enhanced operation and maintenance programs are inventoried, 95% are current with inspections, and all failed systems are fixed.</p>	<ul style="list-style-type: none">• All on-site sewage systems in marine recovery areas and other areas with equivalent enhanced operation and maintenance programs within our LIO are inventoried and all failed systems are fixed
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