

Thornton Creek Watershed 1st Annual Report
July 2003 through December 2004
Executive Summary
October 2005

Executive Summary

The Thornton Creek Watershed Five Year Action Agenda (Action Agenda) was developed in 2003 as the implementation tool for the draft 2001 Thornton Creek Watershed Action Plan (Plan). Issued in July 2003, it prioritizes the recommendations contained in the Plan in three ways: doable in specific years, needing further study and not possible in the next five years. This report is the first annual report to the Thornton Creek Watershed Oversight Council and the interested public on progress in implementing the Action Agenda, as called for in City of Seattle Council Resolution 30709 Section 3 2) which states as part of the role of the Watershed Council: "review progress based on the schedule proposed in the Action Agenda and an annual report back by Seattle Public Utilities" (see Appendix 1). It covers progress from July 03 through December 04. Future reports will cover progress during the calendar year.

Seattle Public Utilities remains committed in partnering with others to continue implementing the priority actions in the Action Agenda and is well into implementation in 2005.

Mission from Plan:

To protect and restore the Thornton Creek ecosystem for the welfare of fish, wildlife and people; improve the quality of life in the watershed; and prevent further degradation as human population and development increase.

Goals from Plan

1. Reduce stormwater-related flooding and damage to stream and wetland habitat, and increase infiltration
2. Improve water quality by reducing nonpoint pollution in Thornton Creek and it's watershed.
3. Protect and improve instream, riparian, and upland habitat for the survival of remaining native species.
4. Increase public awareness and develop stewardship of the watershed

Accomplishment Highlights for July 03 through December 04 in the seven categories

STORMWATER

Goal: *To mimic natural flow patterns, minimize stormwater related habitat damage, and reduce flooding.*

- ✓ Shoreline completed mapping of existing storm drains, ditches and culverts Dec 03 (Storm C2)
- ✓ SPU conducted four drainage improvement projects in the Thornton Creek watershed in 2004 at 20th Ave NE, Jackson Park, 30th Ave NE & NE 107th, and Meadowbrook. Pinehurst NDS in design and community outreach in 2004. (Storm C3)
- ✓ King County and SPU developing creek flow database management system and improved monitoring flow equipment installed (Storm D1)
- ✓ SPU's creek monitoring team evaluated creek restoration projects at Jackson Park, Lake City Way fish ladder, Littlebrook culvert, and Homewood Park. (Storm D3/Monit A4)

NONPOINT POLLUTION

Goal: *To restore water quality in Thornton Creek and its lakes and wetlands to meet, or be better than, the state's water quality standards.*

- ✓ Four illicit connections were eliminated as one outcome of SPU's surface water quality business inspection program in Thornton Creek in 2004 (NP B2)
- ✓ Seattle city staff and Shoreline road staff trained in stormwater management and source control best management practices (NP C3.B)
- ✓ SPU produced several educational pieces on nonpoint pollution for distribution city-wide, including a Bert the Salmon cartoon on car tune-ups, airing the Bert the Salmon carwash cartoon, reprinting the four flyers on carwashing, car maintenance, petwaste and lawn fertilizers, and co-funding the Urban Watershed Pledge. (NP E2)
- ✓ SPU conducted the Natural Yardcare Neighborhood series of 4 workshops in the lower south fork, co-sponsored with TCA and LHWMP (NP E3)

HABITAT

Goal: *To protect and improve habitat for nature fauna and flora within the Thornton Creek Watershed, and to provide opportunities for people to connect with nature.*

- ✓ SPU completed the Lake City Way fish passage project at NE 100th St. in 2003. Mayor's Restore Our Waters Strategy announced in 2004, with removal of fish passage barriers identified as a high priority (Habitat B1)
- ✓ TCA, in partnership with SPU and Parks, completed the Littlebrook Habitat restoration project at Littlebrook Park. SPU completed the first two phases of instream habitat restoration at Park 6. (Habitat C4)

- ✓ SPU conducted a naturescaping workshop for 100 property owners in Thornton Creek, and produced a brochure on choosing the right plants for your yard, with lots of recommendations on native plants (Habitat C6)
- ✓ The City of Seattle created the Green Seattle Partnership, which includes Seattle Parks, OSE, SPU and the Cascade Land Conservancy, with the goal of restoring 2,500 acres of forest habitat in 20 years. SPU will invest \$150K per year for the next 6 years, with 15% going to restoring the Thornton Creek riparian forest areas, starting with Parks 1,2, and 6 and Kartess natural area. SPU supported creekside stewards in removal of invasive weeds and riparian habitat plantings on public property throughout the watershed (Habitat C7, C8))
- ✓ Homewaters and NSCC began developing a wildlife program at NSCC (Habitat C10)

EDUCATION AND STEWARDSHIP

Goal: To improve awareness of, foster pride and responsibility for, and create learning opportunities within the watershed

- ✓ Homewaters, through the MOA with SPU, produced and distributed a brochure on the Thornton Creek Watershed, which includes a map and guide to points of interest (Ed/Stew A1)
- ✓ Homewaters, through the MOA with SPU, hosted two long walks of the watershed, in the north and south forks in 2004 (Ed/Stew A6)
- ✓ Homewaters, through the MOA with SPU, created a green mapping program at Nathan Hale High School, provided information to over 285 teachers and students and coordinated school outreach programs to over 1000 students in the watershed (Ed/Stew B2)
- ✓ SPU's creek steward program worked with over 500 volunteers who contributed 1200 hours in removal of invasive weeds and planting over 500 native trees and shrubs on city property along the creek (Ed/Stew D1.A)
- ✓ SPU, Parks and Homewaters produced a Living with Beavers workshop and open house at Meadowbrook Pond for over 100 watershed residents (Ed/Stew D1.A)

REGULATION/ENFORCEMENT

Goal: To ensure that present and future regulations affecting the Thornton Creek watershed are fully enforced.

- ✓ SPU's Surface Water Quality Team conducted business inspections in the watershed in 2004 (to be completed in 2005). All businesses that fall under SMC 22.800 as engaging in high risk pollution generating activities are inspected. (Reg/Enf A1.A)
- ✓ SPU reviewed completed watershed studies as part of the Stormwater Code Update (Reg/Enf B1.B)
- ✓ DPD worked on revising the ECA to provide more protections for creek riparian areas (Reg/Enf B1.A)

IMPLEMENTATION

Goal: To ensure timely and effective implementation of the Thornton Creek Watershed Action Plan, consistent with priorities identified in the Plan and ongoing direction from interested citizens and stakeholders

- ✓ The Seattle City Council adopted a resolution fall of 2004 to formally establish the watershed oversight council. (Imp A1)
- ✓ SPU staffed and supported the evolution of the TC Watershed Management Committee into the watershed oversight council through regular meetings throughout 2003-2004 (Imp A2)
- ✓ SPU assigned staff to coordinate and support the Action Agenda (Imp A4)
- ✓ The draft Watershed Plan and the Action Agenda were incorporated into Seattle's Comprehensive Drainage Plan and the Mayor's Restore Our Waters Strategy (Imp B1)

MONITORING, ANALYSIS AND EVALUATION

Goal: To accurately gauge Action Plan effectiveness by gathering regular, reliable progress reports and data on the creek and watershed through a variety of methods, public and private, and make it available to all interested parties.

- ✓ SPU's Creek Monitoring Team conducted monitoring for 4 CIP projects in the watershed to evaluate structural integrity and plant survival (Monit A4)
- ✓ Forty two citizens attended benthic monitoring training to assist SPU in sampling seven sites in the watershed fall 2003. This will be held again fall 2005 (every other year) (Monit A6)

Attachments

Action Agenda Matrix – Status of Actions
Seattle City Council Resolution 30709
Map of Projects

Thornton Creek Five-Year Action Agenda Progress/Status
September 05

July 03 through December 04

Ref #	Plan Reference*	Plan Page #	Recommendation	Status	Implementing Sponsor	Budget Year	Progress
1	Storm A1.	3-3	Create surface and subsurface geologic maps to assist in determining infiltration capacities	Y	USGS	2004	
2	Storm A2.	3-3	Research and develop program to promote infiltration techniques.	Y	SPU—Resource Planning, SDOT	2008	Comprehensive Drainage Plan Natural Systems Program
3	Storm A3. a)	3-4	Develop strategies for reducing impervious surface on existing public and private land.	P	SPU—Resource Planning, Engineering, SDOT	TBD	Natural Systems Program, Porous Pavement Evaluation, Flow Control Manual
4	Storm A3 b)	3-4	Design and evaluate stormwater infiltration technology, including technologies that allow for partial infiltration.	Y	SPU—Resource Planning, SDOT	2003 and ongoing	City of Seattle is in compliance with our existing permit. Ecology permit requirements expected in second quarter 2005.
5	Storm A3. c)	3-4	Revise the Land Use Code and Critical Areas Code based on information available from research conducted in Storm A, B.	P	DPD	2004	ECA comprehensive plan policies updated. Substantial progress made toward updating ECA Code adoption expected late 2005
6	Storm A3. d)	3-4	Target Natural Drainage System improvements to right-of-ways in unimproved areas draining to key creek systems for infiltration, detention and treatment of stormwater runoff.	Y	SPU—Resource Planning, SDOT	2003 and ongoing	Natural Systems Program
7	Storm A3. e)	3-4	Purchase additional public property in targeted areas to improve groundwater recharge and stormwater treatment.	P	SPU—Resource Planning	As identified	Comprehensive Drainage Plan
8	Storm A4	3-6	Incorporate policies to promote pervious surfaces into new Neighborhood Design Guidelines	P	DPD, N'hood groups	TBD	DPD may consider in future design guidelines.
9	Storm A5.	3-7	Integrate creative alternatives to traditional sidewalks, curbs and gutters into drainage projects when technically feasible to promote creek health.	Y	SPU—Resource Planning	2003 and ongoing	SPU and SDOT developing NDS guidance for the new Right-of-Way Improvement Manual
10	Storm A6	3-8	Assess the impact of stormwater contributions to sanitary sewer overflows in this watershed and develop disconnect program if impact significant.	N-\$	SPU		Not a priority at this time; problems will be addressed on a case by case basis
11	Storm A7.	3-8	Identify alternatives to infiltration facilities when it is incompatible with development or site conditions cannot accommodate it.	Y	SPU—Resource Planning, SDOT	TBD	As part of the Stormwater Code update project, the On-Site Flow Control team is currently evaluating potential infiltration, natural system and other flow control options

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								to include in the next Flow Control Manual Update. The team plans to have a list of options in February and develop technical guidance in 2005.
12	Storm B1	3-9	Increase on-site detention for new construction and redevelopment to the extent possible.	Y	DPD, SPU—Resource Planning	TBD		Seattle updated codes to increase detention in 2001. Updating Flow Control Manual to include more NDS options and better guidance over the next 18 months. Any modifications to the current requirements for on-site detention will be incorporated in the City of Seattle's revised Stormwater, Grading, and Drainage Control Code (SMC 22.808) and associated technical requirements. This code revision process is currently underway and is expected to take 12 to 18 months. See comment under "Storm D5."
13	Storm B2.	3-9	Improve existing and create new regional detention facilities.	Y	SPU—Resource Planning, SDOT	TBD		SPU is currently evaluating options for constructing a facility upstream of Meadowbrook Pond that will alleviate some of the maintenance burdens at the pond itself. Consideration is also underway for a drainage facility at Northgate that <i>may</i> include some degree detention.
14	Storm B3	3-11	Incorporate surface detention during Lake City Civic Core redevelopment.	P	SDOT, WSDOT, DON, Parks, SPU	2003-04		New parking garage being built between community center and library (more to be added?)
15	Storm B4	3-11	Create a flood easement program	N-R	SPU, DPD			Regulatory constraint
16	Storm B5	3-12	Evaluate and optimize the frequency of private drainage system inspections.	P	SPU-Community Services	2004-05		
17	Storm C1.	3-12	Evaluate and where appropriate improve maintenance to public stormwater conveyance system.	Y	DWW Operations	ongoing		Comprehensive Drainage Plan/Asset Management
18	Storm C2	3-13	Map the existing storm drains, ditches and culverts in Shoreline	Y	Shoreline	Completed		Shoreline completed the mapping Dec 03

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	19	Storm C3.	3-13	Improve local stormwater collection systems.	Y	SPU—Resource Planning	ongoing	The Flood Control & Local Drainage Program – within SPU’s Drainage and Wastewater CIP Fund - is managed to support the improvement of the local drainage systems throughout the City. In 2004, CIP projects that addressed local needs within the Thornton Creek basin included: 20 th Ave NE Local Drainage Improvements; 30 th Ave NE & NE 107 th Drainage; Jackson Park Detention Phase 2; Meadowbrook Outfall Rehabilitation; and Pinehurst Natural Drainage System.
	20	Storm D1.	3-14	Study flows in Thornton Creek.	Y	SPU—Resource Planning	complete and ongoing	King County and SPU have been working to develop a creek flow data management system based on a King County-developed database. The new database has much more capacity for editing and is more adapted to measurement of creek flows than SPU’s old storm flow data management system. In several locations on Thornton Creek, improved flow monitoring equipment has been installed to increase data accuracy.
	21	Storm D2	3-14	As part of SPU staffed TCWOC meetings, review Capital Improvement Projects and other relevant projects.	Y	SPU, SDOT, TCWOC	2003 on	Presentations given on selected projects to TCWOC
	22	Storm D3/ Monit A4	3-15 9-4	Evaluate and report on effectiveness of creek restoration projects in the watershed; adapt or modify as necessary.	Y	SPU—Community Services, Resource Planning	ongoing	SPU’s creek monitoring team has been evaluating the Jackson Park Golf Course Detention Pond project, the Lake City Way fish ladder (NE 100 th /LCW), the Littlebrook Culvert (NE 125 th St/35 th Ave NE), and the Homewood Park project. The sites are being monitored based on the design goals for each project, including plant survival and structural evaluation. SPU has completed numerous creek restoration projects along Thornton Creek. SPU’s project monitoring consists of the following efforts: site inspection after major

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								storms, annual summer survey to assess project success, plant survival and preparation of annual report summarizing 3year monitoring results. Technical assistance was provided for plant monitoring and as-built creation for the Littlebrook Park project
	23	Storm D4.	3-15	Continue funding drainage capital improvement projects, implementing improved selection and design criteria.	Y	SPU—Resource Planning	2003 and on	Approved \$7.2 million to construct the Thornton Creek Water Quality Channel at Northgate.
	24	Storm D5.	3-16	Update stormwater manuals regularly as required by Seattle’s MS4 NPDES permit.	Y	SPU—Resource Planning	ongoing	City of Seattle is currently reviewing its Stormwater, Grading, and Drainage Control Code (SMC 22.808) and associated technical requirements. This code revision process is expected to take 12 to 18 months. Determining appropriate detention, treatment, and pollution prevention requirements will be based on a holistic assessment of legal requirements, available options, existing conditions, life-cycle costs, and anticipated benefits. The City’s efforts to review and update the code are in anticipation of Ecology issuing a new National Pollutant Discharge and Elimination System (NPDES) permit for discharges from the City’s Municipal Separate Storm Sewer System (MS4). Final issuance of a new NPDES MS4 permit is not expected until Mid-2005 or later. The requirements that will be contained in Seattle’s revised stormwater code will incorporated, as appropriate, guidance contained in Ecology’s Stormwater Management Manual for Western Washington (2001, with revisions anticipated in early 2005) as well as any specific requirements contained in a reissued NPDES MS4 permit.
	25	Storm E1 A	3-17	Require detention or infiltration for developments meeting applicability thresholds.	Y	SPU—Resource Planning	ongoing	NPDES Permit— Stormwater Code & Manuals

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	26	Storm E1 B	3-17	Promote water conservation.	Y	SPU— Community Services	ongoing	Outreach and education as part of Natural Yard Care workshops, materials, articles, ads, and Natural Yard Days promotions which include discounts on mulch and soaker hoses.
	27	Storm E2	3-17	Evaluating whether to study options to provide financial incentives to private property owners. Evaluate and develop programs to create financial incentives to businesses and/or homeowners to better manage surface water runoff.	P	SPU—Resource Planning	2005	SPU is developing a report to Council on potential incentives related to reducing stormwater runoff
	28	Storm E3	3-18	Educate homeowners and businesses on the importance of keeping storm drains and ditches free of leaves and inlets trash through outreach programs..	Y	SPU— Community Services	2003 on	Articles in Fall Curb Waste and Conserve newsletters to all customers Citywide campaign Fall 04 – message from Mayor and increase of two bags per household under Clean Green Yard Waste service
	29	Storm E4.	3-18	Coordinate Fall Clean-up Program on public property	Y	SPU— Community Services	2003 on	Northgate Clean Seattle in 8/03 Fall Clean-up offered citywide
	30	Storm E5.	3-19	Develop pilot to promote water re-use through rainwater cisterns and/or gray water systems.	Y	SPU—Strategic Planning	2004	Comprehensive Drainage Plan recommendation City-wide pilot program
	31	NP A1.	4-5	Review the existing non-point pollution programs in Seattle to ensure they are being applied to the Thornton Creek watershed.	Y	SPU— Community Services	2003	Brochures, other outreach and education programs on reducing and preventing nonpoint pollution are available to and implemented in the Thornton Creek watershed
	32	NP A2.	4-6	Meet the requirements of existing and future NPDES permits.	Y	SPU—Resource Planning, SDOT	ongoing	NPDES Permit—next permit being reviewed in 2005
	33	NP A3	4-6	Brief the Watershed Oversight Council during the development of the stormwater management program and stormwater code for the NPDES permit for Seattle.	Y	SPU and WOC	2003	Comprehensive Drainage Plan completed and in 2004. Stormwater code/program for NPDES permit being developed in 2005
	34	NP B1	4-7	Reduce and eventually eliminate fecal coliform exceedances.	P	SPU	TBD	Technical limitations in treatment and monitoring. Thornton Creek is listed for TMDL on fecal coliform
	35	NP B2.	4-7	Eliminate breaks, leaks and illicit sewer connections as identified that discharge into Thornton Creek.	Y	SPU— Community Services, DWW Operations	2003 on	Illicit connections to the storm drain system are identified through several programs - business inspections, detention inspections and surface water quality complaint

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								response. Most often, illicit sewer connections are uncovered by surface water quality complaints, in which inspectors respond to citizen concerns throughout the watershed. In addition, inspectors are currently finishing a thorough round of business inspections in the Thornton Creek Watershed, which resulted in at least 4 illicit connections being terminated. Detention inspections are done on a continuing, rotational basis.
	36	NP B3.	4-8	Collect additional information on locations and frequency of exceedance of State standards for water temperature and dissolved oxygen.	P/O	Regional Agency, SPU—Resource Planning	TBD	Being evaluated by SPU technical staff
	37	NP B4	4-8	Study intergravel temperature and dissolved oxygen in areas where adult salmon are spawning in the watershed.	N/O	Regional Agency, SPU—Resource Planning	TBD	Being evaluated by SPU technical staff
	38	NP B5	4-9	Determine methods to measure turbidity throughout Thornton Creek.	Y	Regional Agency, SPU—Resource Planning	complete	Methods available
	39	NP B6	4-9	Establish a program to periodically sample Thornton Creek for levels of phosphorus and nitrogen.	P/O	Regional Agency, SPU—Resource Planning	TBD	Being evaluated by SPU technical staff
	40	NP B7	4-9	Continue to periodically review the literature for standards for metals.	O	TCWOC; King County ?		(to be added by King county)
	41	NP B8.	4-10	Continue periodic monitoring of the benthic index of biological integrity (B-IBI).	P	SPU—Community Services	ongoing	Potential volunteer activity
	42	NP B9.	4-10	Fund a research study to determine the impact of sediment contamination on the biological productivity in Thornton Creek.	O	Regional agency; King County		(to be added to by King County).
	43	NP B10	4-10	Determine and rank the potential non-point pollutants in the watershed and their sources.	P	SPU	TBD	Comprehensive Drainage Plan
	44	NP C1	4-11	Eliminate the use of Diazinon on public properties.	Y	Seattle departments, WSDOT	2003	The use of Diazinon virtually ended in the City in 2000 and will not be used at all beyond December 2004.
	45	NP C2	4-11	Determine what pesticides and herbicides are being used by public agencies in the Thornton Creek watershed and reduce use over time.	Y	Seattle departments, OSE	ongoing	Parks and SDOT adhere to the City's aggressive "Pesticide Reduction Strategy" and adherence to city best management

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								practices. Parks uses a database to track all pesticide use on park land. USGS and Ecology conducting pesticide studies in Thornton Creek. Need to discuss with Schools
46	NP C3. A	4-11	Reduce non-point pollution caused by maintenance activities on public property including promoting integrated pest management and reducing pesticides and fertilizers.	P	Seattle departments	ongoing	Parks and SDOT adhere to the City's aggressive "Pesticide Reduction Strategy" and adherence to city best management practices. Need to discuss with Schools	
47	NP C3. B	4-11	Train maintenance staff in non-point pollution reduction goals and techniques.	Y	Seattle departments, Shoreline	ongoing	The interdepartmental Stormwater Coop has provided classes to city staff on stormwater management and source control to avoid sedimentation and pollution of waters. The City of Shoreline training of road crews and regional roads forum. SDOT has conducted <i>Regional Road Maintenance ESA</i> training and the Stormwater Cooperative Course. City of Shoreline trained road crews, who submit quarterly reports; Held Regional Roads Forum.	
48	NP C3. C	4-11	Set targets for reducing all pesticides per City reduction goals, and commit to eliminating Tier 1 pesticide use".	P	Seattle departments	ongoing	Refer to OSE Pesticide Reduction Goals on City PAN website.	
49	NP C4.	4-13	Evaluate current street cleaning methods in terms of their impact on pollution of Thornton Creek.	P	SDOT		SDOT is currently implementing procedures prescribed in the NPDES Stormwater permit and <i>Regional Road Maintenance ESA Guidelines</i> .	
50	NP C5.	4-13	Fund a research study to evaluate the effectiveness of devices installed to treat stormwater runoff from streets and parking lots.	Y	SPU—Resource Planning	ongoing	SPU is currently monitoring selected natural drainage system projects in conjunction with University of Washington. These projects provide flow and water quality treatment for stormwater runoff within the public right of way. SPU is providing technical assistance on the Northgate north parking lot design	
51	NP C6.	4-13	Identify additional potential road treatment sites based on drainage characteristics, traffic volume, land use.	P	SPU—Resource Planning	TBD	Comprehensive Drainage Plan	
52	NP C7	4-14	Support and promote use of public transit systems and other alternative modes of transportation.	Y	SDOT	ongoing	Ongoing programs	
53	NP C8.	4-14	Incorporate water quality improvements into CIP	Y	SPU—Resource	Start 2004	Comprehensive Drainage Plan	

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				projects.		Planning		
54	NP C9.	4-14	Remove trash and sediments from detention ponds.	Y	SPU—DWW Operations	ongoing	• Meadowbrook dredging project Fall 04 (and late summer 05)	
55	NP D1	4-15	Conduct an outreach and inspection program for priority commercial, multifamily, industrial, institutional and government-owned sites within the watershed.	Y	SPU—Community Services	2003-04	The SWQ Team is currently finishing a complete round of business inspections in the Thornton Creek Watershed. This involves inspecting all businesses in the watershed who engage in any of eight high risk pollution generating activities, as identified by SMC 22.800. Businesses are inspected and given 60 days to complete any corrective actions required by code. The most common corrections are maintaining drainage structures and having a spill kit and spill plan on hand	
56	NP D2	4-16	Require source control best management practices (BMP's) be applied as appropriate to all construction sites in the watershed.	Y	DPD	Ongoing	Current Stormwater Code	
57	NP D3	4-16	Develop and implement a program to address pollutant discharge from mobile business.	P	SPU—Community Services	2008	Comprehensive Drainage Plan may consider this strategy	
58	NP E1	4-17	Encourage the discontinuation of Diazinon use on private property.	Y	King County, SPU—Community Services	ongoing	Local Hazardous Waste Management Program educational efforts	
59	NP E2	4-17	Continue and improve where possible existing programs to inform the public about non-point pollution and how they can reduce it.	Y	SPU—Community Services	ongoing	SPU partnered with Channel 11 to create, produce and air a new Bert-the-Salmon cartoon "Be in Tune with the Environment" about keeping cars tuned, specifically in relation to changing oil. Also, aired the Bert the Salmon cartoon about reducing pollution from car washing SPU supported the Puget Soundkeeper Alliance to produce "The Seattle Urban Watersheds Pledge" about ways for citizens to reduce nonpoint pollution SPU reprinted the four flyers originally produced by the Water Quality Consortium	

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								on tips for reducing pollution from car washing, changing the oil, pet waste, and fertilizing the lawn.
60	NP E3	4-18	Complement the regional non-point pollution messages by targeting the Thornton Creek watershed.	Y	SPU—Community Services	2003-04		SPU implemented a Natural Yardcare Neighborhood series of 4 workshops on the 5 Steps to Natural Yardcare in the lower south fork of the watershed, co-sponsored with TCA and the Local Hazardous Waste Management Program in King County
61	NP E4	4-18	Explore the feasibility of developing a Thornton Creek watershed incentive program to encourage activities to decrease non-point pollution throughout the watershed's residential areas.	P	SPU—Community Services	2006		Needs future evaluation.
62	NP E5	4-19	Continue existing programs to inspect, repair, and replace on-site septic systems.	O	King County Health Dept.			Need to discuss with King County
63	NP E6	4-19	Promote lower use of pesticides, herbicides and fertilizers.	Y	SPU—Community Services	ongoing		See E3 above. SPU sponsored NW Natural Yard Days in spring and fall each year
64	Habitat A1.	5-4	Restrict development in riparian corridors and wetlands.	P	DPD	2005		Environmental Critical Areas code currently contains restrictions. DPD will be updating Environmental Critical Areas Code and will consider regulatory changes.
65	Habitat A2.	5-4	Help streamside property owners control erosion and improve habitat.	Y	SPU—Community Services	2005		SPU will develop a handbook for all creek-side owners late 2005
66	Habitat A3	5-5	Encourage builders to retain areas of native vegetation on their site and to use natural techniques to manage storm water.	Y	DPD	ongoing		Current ECA and tree protection ordinance
67	Habitat A4	5-5	Conduct fish and wildlife surveys.	P	SPU	Ongoing for fish		Watershed Assessment Comprehensive Drainage Control Plan
68	Habitat A5	5-6	Develop a central contact to coordinate wetland expertise in the watershed.	P	Seattle depts, King County	TBD		SPU, DPD and Parks have expertise—no central contact designated.
69	Habitat A6	5-6	Publicize opportunities for private land-owners to receive credit and assistance to conserve private open space.	O	King County DNR			King County and maybe Homewaters Project
70	Habitat B1.	5-7	Remove fish passage barriers.	Y	SPU—Resource Planning, Parks	2004, ongoing		The Mayor has announced the "Restore Our Waters" Initiative that coordinates

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								department efforts in policy and actions, including prioritizing removal of appropriate fish passage barriers as capital projects In Summer 2003, SPU modified the culvert on the South Branch of Thornton Creek which crosses under Lake City Way near NE 100 th St. The project was designed to allow salmon to swim upstream of Lake City Way for the first time in decades. The project installed several concrete and boulder weirs, and added cobbles, gravel, large woody debris to the channel. In 2003 and 2004, salmon have been spotted upstream of Lake City Way. SPU has provided Earth Corps with information regarding fish passage barriers along lower Maple Creek (a Thornton Creek tributary in the Matthews Beach area). Earth Corps is investigating the possibility of modifying privately owned fish passage barriers.
	71	Habitat B2.	5-8	Look for collaborative ways between public and private property owners to enhance and promote connectivity of migratory corridors for wildlife within the watershed.	N/O			Beyond the scope of the type of biological studies initiated by Parks
	72	Habitat C1.	5-8	Develop guiding principles for in-stream restoration done by Seattle or community groups.	P	SPU and other agencies	TBD	UW Studio follow up
	73	Habitat C2	5-10	Host a Thornton Creek Watershed Urban Fish Workshop.	O	Homewaters Project		Need to discuss with Homewaters Project
	74	Habitat C3	5-10	Improve Thornton Creek stream flows.	Y	SPU—Resource Planning	ongoing	In 2003, SPU completed work on the Jackson Park Detention Ponds SPU is designing projects in the Northgate and Pinehurst area that will include natural drainage strategies that: remove pollutants from stormwater, reduce peak flows and/or infiltrate stormwater runoff.
	75	Habitat C4.	5-11	Improve in-stream conditions on public land.	Y, P	SPU—Resource	ongoing	SPU has completed the first two phases of

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						Planning		stream restoration in Thornton Creek Park 6. The restoration project has focused on increasing instream habitat – primarily by adding boulders and large woody debris. Third phase to be conducted in 2005. In 2003, SPU worked with Thornton Creek Alliance to create a section of creek in Little Brook Park, formerly known as the Last Open Space. This project re-routed the creek into the park, created a natural looking creek bed and added native plants
76	Habitat C5. A	5-11	Inventory and assess riparian habitat.	P	SPU—Resource Planning	ongoing	The Riparian Assessment is a catalogue of the presence and composition of vegetation along the stream corridor. The assessment has been analyzed to determine the quality and function of riparian corridors for both habitat and flood control. These include measures for assessing overall riparian forest connectivity, in-channel influence, stream bank integrity, floodplain presence and quality, and above ground quality such as canopy shade control and nutrient sources from plant detritus	
77	Habitat C5. B	5-11	Enhance and maintain areas with good riparian habitat.	P	SPU—Resource Planning	ongoing	Please see habitat C7	
78	Habitat C6	5-12	Encourage native plant use through programs.	Y	SPU—Community Services, Parks	ongoing	Parks, SPU and other city departments have partnered with the Land Conservancy to implement the Mayors “Green Seattle Partnership”. This will greatly expand the restoration and preservation of natural areas in Seattle over the next 20 years SPU conducted a naturescaping workshop for approximately 100 property owners in the watershed. SPU produced a brochure on “Choosing the Right Plants for your Yard” which includes recommendations on native plants	
79	Habitat C7.	5-14	Increase the number of trees and understory shrubs	Y	Parks,	ongoing	SPU restored sections of Thornton Creek	

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						SPU—Resource Planning		<p>Park 6 in the summer of 2004, including the banks of the creek with native plants and trees</p> <p>SPU is participating with the Mayor’s Green Seattle Partnership. The Green Seattle Partnership also includes Seattle Parks and Recreation and the Cascade Land Conservancy. This partnership is developing restoration goals, priorities, best management practices, and plans to restore 2,500-acres of forest habitat over the next 20 years.</p> <p>In support of this partnership, SPU has established a capital program that will invest \$150,000/year for the next six years in restoring publicly owned riparian forests. Approximately 15% of the investment will be made in the Thornton Creek watershed, because approximately 15% of the publicly owned riparian forest is located in this watershed. The focus areas for 2005 include Thornton Creek Park 1, 2, and 6 and Kartess natural area.</p> <p>In the last 18 months, SPU has supported creekside stewards and riparian habitat plantings at numerous sites in the watershed. Recently planted areas are riparian corridor along Jackson Park golf course, and Thornton Creek Park 6. Care of areas planted prior to 2003 in Homewood, Thornton Creek Park 1 near 12th Ave NE, Willow Creek south of NE 100th St and Meadowbrook Detention Pond</p>
80	Habitat C8	5-15	Remove and control noxious weeds and invasive plants on public property in conjunction with ecosystem or landscape restoration efforts.	Y	Seattle departments	ongoing	<p>Parks, SPU and other city departments have partnered with the Land Conservancy to implement the Mayors “Green Seattle Partnership”. This will greatly expand the restoration and preservation of natural areas in Seattle over the next 20 years. SPU is</p>	

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								involved in focusing on riparian areas in this initiative.
81	Habitat C9	5-16	Develop programs to reuse trees that are cut down.	P, O	TCA with Parks and SPU	ongoing		Parks currently works within the department and cross-departmentally to re-use and recycle wood—level of effort depends on storage space and other logistics.
82	Habitat C 10	5-17	Develop North Seattle Community College programs to protect wildlife.	O, Y	NSCC, Homewaters			Homewaters and NSCC developing wildlife program
83	Habitat D1	5-17	Continue to purchase wetland and creek-side property for habitat value.	P	Parks, SPU—Resource Planning	TBD		Comprehensive Drainage Plan Must be consistent with Park’s principles for parkland acquisition.
84	Habitat D2.	5-18	Restore, create or re-create wetland habitat	P	Parks	TBD		Parks can participate within allowable resources
85	Habitat D3	5-18	Develop a program to accept land donations to Seattle Parks Departments.	Y	Parks	TBD		Parks can commit to accepting land that is consistent with the strategy to assemble contiguous parcels on creeks or in the watershed that positively contribute to the city’s park and recreation system. The Parks Foundation has been established to accept donations to the Seattle Parks and Recreation
86	Habitat D4	5-19	Establish a Thornton Creek Conservancy to seek funding for purchase of property along the creek corridor and near local wetlands	O	TCA			Need to discuss with TCA
87	Habitat E1	5-19	Inventory and evaluate trails on Parks land within the Thornton Creek Watershed	P	Parks	TBD		Parks has inventoried and evaluated many of the trails already, and will use this information to do trail maintenance.
88	Ed/Stew A1. A	6-2	Create and produce a brochure, which describes the watershed.	Y	SPU—Community Services, Homewaters Project	2003-04		Homewaters Project produced a guide to the Thornton Creek watershed, under MOA w/SPU. Under Homewaters Project direction, UW graduate students developed a map of North Seattle Community College wetlands. The map will be used on signs and brochures for an NSCC Greenbelt trail system for the community in Spring 2005.

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89	Ed/Stew A1. B	6-2	Install welcome signs and creek crossing signs.	O	TCWOC, SDOT		Grant funding Need to coordinate with SDOT
90	Ed/Stew A1. C	6-2	Creatively use murals about the watershed through public private partnerships.	O	TCWOC, TCA		Grant funding SPU may participate through grant program
91	Ed/Stew A2	6-3	Work with King County Envirostars to develop a stormwater component. .	Y	SPU, TCWOC, KC	2004-05	Grant funding SPU BIRV Contract Need to discuss with KC
92	Ed/Stew A3	6-4	Conduct educational outreach by meeting with community groups, businesses, service providers.	O	TCWOC, SPU, Homewaters Project		Grant funding Need to discuss with TCWOC SPU may consider these as ideas when conducting community outreach in the watershed
93	Ed/Stew A4	6-6	Promote the "Master Home Environmentalist" program and incorporate additional watershed friendly tips.	O	WA Toxics coalition		Need to discuss with WA Toxics coalition
94	Ed/Stew A5	6-7	Promote appreciation for and care of local wildlife, plants, parks and open spaces. Use a variety of techniques. Brochures, signs, newsletter, websites.	P	TCWOC, TCA Parks, SPU, Homewaters Project	TBD	Parks website and Park guide can be used. No Parks resources are programmed for recycling signage, newsletter, website enhancement, or interpretative signage.
95	Ed/Stew A6	6-8	Encourage residents to explore and learn about the watershed.	Y	SPU—Community Services	ongoing	Homewaters Project provided two Long Walks for residents of the North and South Forks of Thornton Creek. 18 community members participated on the North Fork and 15 community members on the South Fork. 1,000 copies of the new watershed guide were distributed to residents to encourage exploration and understanding of the watershed.
96	Ed/Stew B1.A	6-8	Fund a part-time City staff Watershed Educator responsible for coordinating outreach and education within the watershed.	Y	Resource Management Branch	2003 and on	Split between project manager for Homewaters Project MOA and Creek Steward program manager
97	Ed/Stew B1.B	6-8	Fund selected Thornton Creek education and outreach programs through the Homewaters Project.	Y	SPU—Community Services	2003-04, 2004-2005	In fifth year of funding Homewaters Project. Extended through June 2006. Homewaters Project participated in two Living with Beaver Workshops held in 2004 by SPU's Creek Steward program for residents to increase their understanding of

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								watershed ecology at Meadowbrook Pond. The first was an information session for Homeowners, and the second was an "open lodge" to learn about beaver habitat and Meadowbrook Pond. Homewaters Project participated on the panel of a World Affairs Council educator's forum entitled "Building Bridges Over Troubled Water with over 60 people in attendance.
	98	Ed/Stew B1.C	6-8	Provide on-going funding for additional Thornton Creek Project positions.	N-\$	SPU—Community Services		
	99	Ed/Stew B1.D	6-8	Convene a watershed education co-ordination group of community and school educators	0	Homewaters Project		
	100	Ed/Stew B2	6-12	Encourage and support watershed-related learning experiences in schools.	Y	SPU—Community Services	ongoing	Homewaters Project developed and implemented a Green Mapping program with 30 students and one teacher in an ecology class at Nathan Hale High School. Homewaters Project provided ongoing informational support to over 285 teachers and students about the Thornton Creek Watershed through workshops, fairs, phone calls and meetings. Homewaters Project coordinated school outreach programs, such as Water and Community and Tiny Neighbors field programs to over 1000 students in the Thornton Creek watershed.
	101	Ed/Stew B3	6-12	Provide support for educators who connect their students with the watershed.	P	SPU—Community Services	TBD	Budget Constraint, SPU agreement with School District to implement the Land and Water program for 4 th and 5 th graders.
	102	Ed/Stew B4	6-13	Review regularly and modify the Salmon-in-the-Classroom program.	Y	SPU—Community Services	ongoing	Developed an end of the school year evaluation of Seattle School groups taking field trips to the Thornton Creek Watershed.
	103	Ed/Stew B5	6-13	Integrate elements of watershed education into drivers' education courses.	P	Homewaters Project, SPU and School District	2005	Information can be developed but need agreement from School District to implement.
	104	Ed/Stew	6-14	Continue and expand existing programs offering	P	SPU—	2004 on	Extent depends on availability of resources.

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		C1		learning opportunities.		Community Services		
	105	Ed/Stew C2	6-16	Package existing information in accessible and friendly formats.	O	Homewaters Project and TCA		Need to discuss with TCA, Homewaters Project
	106	Ed/Stew C3	6-17	Document Watershed History	Y	SPU, Homewaters Project, with Shoreline Hist. Museum, libraries	Currently doing	Homewaters Project displayed their “exploring local history of the Thornton Creek Watershed interactive website” for the History House NE Seattle exhibit. The website shows photos and historical sites of interest in the watershed, and is also on the Homewaters website. Homewaters Project upgraded their website to make it easier for the public to access current and historical Watershed information
	107	Ed/Stew C4	6-18	Educate developers about the Thornton Creek Watershed and their role within it.	O	DPD, w/ support from SPU, TCWOC	2006	If SPU or TCWOC could assist in developing material, DCLU could distribute
	108	Ed/Stew D1.A	6-18	Promote Stewardship by sponsoring work parties and community stream restoration projects.	Y	SPU, Parks	ongoing	SPU’s Creek Steward program worked with 38 individuals, 4 religious groups, 6 schools, 2 universities and one national medical conference on long and short term volunteer projects in the watershed. Overall, this involved over 500 volunteers and some 1200 hours removing invasive weeds and planting over 500 native trees and shrubs. Held a “Living with Beavers” workshop and “Meet the Beavers” open house at Meadowbrook Pond. Over 100 participants. (see Ed Stew B1.B) 13 volunteers sampled macroinvertebrate populations as part of SPU monitoring efforts.
	109	Ed/Stew D1.B	6-18	Improve existing programs such as adopt-a-creek program, block watch program, volunteer monitoring opportunities, adopt-a park program, and reforestation plans.	Y	SPU— Community Services, Parks, SPD	SPU: 2004-06	Parks volunteer program has changed. Projects must be pre-approved and volunteers will be directed to those projects. Still coordinating with SPU’s creek steward

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								program in riparian areas
	110	Ed/Stew D2	6-19	Use a variety of programs to encourage individual residents to make their yards, pets, and wildlife interactions friendlier to wildlife.	0	WDFW, Seattle Audubon		Need to discuss with WDFW, Seattle Audubon
	111	Ed/Stew D3	6-20	Promote business support and recognition programs.	Y	SPU— Community Services	2004-5	Through a partnership with the Greater Seattle Chamber of Commerce, SPU financially supports the Resource Venture, an education and outreach team assisting Seattle businesses in improving environmental performance. The Resource Venture organizes the BEST (Businesses for an Environmentally Sustainable Tomorrow) Awards which recognizes outstanding achievements in water quality and other environmental programs. The Resource Venture also promotes surface water quality to local business associations like the Lake City Chamber of Commerce, and provides technical assistance to businesses with high risk polluting generating activities to help minimize impacts of stormwater pollution.
	112	Reg/Enf A1.A	7-2	Assure proactive enforcement of existing watershed-related Stormwater, and Drainage Control Code regulations.	Y	DPD, SPU— Community Services	ongoing	The SWQ Team is currently finishing a complete round of business inspections in the Thornton Creek Watershed. This involves inspecting all businesses in the watershed who engage in any of eight high risk pollution generating activities, as identified by SMC 22.800. Businesses are inspected and given 60 days to complete any corrective actions required by code. The most common corrections are maintaining drainage structures and having a spill kit and spill plan on hand.

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113	Reg/Enf A1.B Reg/Enf A2	7-2 7-3	Assure proactive enforcement of existing watershed related Critical Areas, Stormwater, Grading and Drainage Control Code and Land Use regulations.	Y	DPD	ongoing	DPD Site Team
114	Reg/Enf A3	7-4	Advertise ways to report environmental problems.	Y	SPU— Community Services	2004-05	Number published in Curbside and Conserve mailings to all customers, and is posted on creek steward website.
115	Reg/Enf A4	7-4	Revive the Interagency Water Quality Trouble Call/Emergency Response Network.	Y	King County	ongoing	King County contacts SPU when receives calls from City of Seattle residents. Also refers them to water quality hotline
116	Reg/Enf B1.B	7-5	During Stormwater Drainage codes updates, review watershed studies and findings and modify codes as appropriate.	Y	SPU—Resource Planning	During update in 2005	Completed watershed studies (or similar) will be reviewed as part of the Stormwater Code update. Pertinent information will be used, as appropriate, to analyze various options to modify existing code and, in turn, recommend final changes for submittal to Ecology (See comment under "Storm D5.")
117	Reg/Enf B1. A	7-5	Review and modify the Environmental Critical Areas (ECA) and Land Use codes to provide additional stream and wetland protection based on watershed studies and findings.	Y	DPD	2003-04	Updating ECA in 2003-2004. DPD will be updating the Environmentally Critical Areas Code and will consider regulatory changes.
118	Reg/Enf B2	7-6	Restrict development in riparian corridors and wetlands.	Y	DPD	2003-04	Environmental Critical Areas code currently contains restrictions. Substantial progress made toward updating ECA Code
119	Reg/Enf B3.	7-6	Identify opportunities to daylight piped or culverted streams.	P	SPU—Resource Planning	TBD	Watershed Assessment Comprehensive Drainage Plan
120	Reg/Enf B4	7-7	Revise Design Review Guidelines to include environmental concerns.	P	DPD	2004-05	DPD may consider these options when the Citywide Design Guidelines are revised.
121	Reg/Enf B5	7-8	Involve citizens in the review of notification procedures relating to development of new code or revisions to existing codes, and to development projects.	Y	DPD	ongoing	Standard practice
122	Reg/Enf B7	7-9	Continue to use citizen review committees to review city codes affecting surface water and water quality.	Y	DPD	ongoing	Standard practice
123	Reg/Enf B8	7-9	Modify City policies, codes, regulations, procedures and	P	DPD, SPU—	TBD	Seattle includes infiltration technologies in

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		Storm A3		designs to promote infiltration where appropriate		Resource Planning		Stormwater Manuals SPU Natural System Program
	124	Reg/Enf B9	7-10	Address short plat and subdivision impacts in the Thornton Creek watershed	P	DPD	TBD	DPD will research to determine whether these suggestions fit with the City's regulations.
	125	Imp A1	8-5	Establish a Thornton Creek Watershed Oversight Council.	Y	SPU— Community Services	2003	Seattle City Council adopted a resolution to formally establish the Thornton Creek Watershed Oversight Council October 2004.
	126	Imp A2	8-6	Develop and Sustain the Thornton Creek Oversight Council	Y	SPU— Community Services	2003 on	SPU has supported the evolution of the Thornton Creek Watershed Management Committee into the Thornton Creek Watershed Oversight Council through monthly meetings (10/yr) and staffing
	127	Imp A3 (A)	8-7	Establish SPU as the lead agency for the Thornton Creek Watershed Action Plan.	N-R			Action Agenda approach
	128	Imp A3 (B)	8-7	Establish City of Shoreline as co-lead agency for the Thornton Creek Watershed Action Plan.	O, N-R	Shoreline		Need to discuss with Shoreline
	129	Imp A4	8-8	Provide staff to coordinate and support the Action Agenda	Y	SPU— Community Services	2003 on	SPU re-allocated in 2003 .5 of a senior staff position to staff the Watershed Oversight Council, and to coordinate support of the Action Agenda
	130	Imp B1.	8-9	Coordinate and integrate the Watershed Action Plan with other existing and future plans, such as the Comprehensive Drainage Plan.	Y	SPU— Community Services	2003 on	Implementing priority actions in the Thornton Creek watershed is incorporated into the City of Seattle's adopted CDP.
	131	Imp B2. (A)	8-10	Improve coordination between Seattle, Shoreline, King County, and within agencies and cities concerning the watershed, including water quality and quantity, restoration, protection, habitat, and related or similar issues.	O	Shoreline, King County		Need to discuss with Shoreline, KC
	132	Imp B2. (B)	8-10	Develop a formal agreement between Seattle and Shoreline, such as an Inter-local Agreement, that states the manner in which these two governments will work together, and sets forth mutual expectations of ways the Thornton Creek watershed will be protected.	O	Shoreline		Need to discuss with Shoreline

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	133	Imp B3	8-11	Improve coordination between agencies and citizens	Y	SPU/TCWOC	ongoing	Creek Steward connects citizens with sources of information and assistance involving DPD and SPU in instance involving tree cutting, bank failures, dumping material in the creek, creek blockage, beaver damage, and facilities conditions. Ongoing coordination on as needed basis provided by Thornton Watershed Coordinator. TCWOC presentations from implementing agencies in Seattle and Shoreline
	134	Imp C1	8-11	Report to the Watershed Oversight Council annually	Y, O	SPU—Community Services	2003 and on	First annual report covering July 03 through December 04 to be completed by June 05
	135	Imp C2	8-11	Lead agency (Seattle, see A3 above), with the assistance of co-lead agency (Shoreline) should develop and consistently update a project management tool to track and monitor status of implementation of recommendations in this Plan.	Y	SPU—Community Services	2004	This matrix is serving as a tracking tool, in addition to an list of priorities updated monthly by the TCWOC
	136	Imp C3	8-12	Create annual watershed report card.	Y	TCWOC, SPU—Community Services	2004 on	Report card to be completed
	137	Imp C4	8-12	Support an On-line Library of information about the Thornton Creek Watershed	Y	SPU Community Services, Homewaters Project	2003 on	Homewaters Project MOA
	138	Imp C5	8-13	Provide coordination among City technical staff to improve management of streams and wetlands.	P	SPU, DPD	TBD	SPU staff can provide coordination among City expertise (natural resources, engineering and ESA team.) New DCLU wetlands specialist on "site team."
	139	Imp D1	8-14	Track progress of action agenda implementation	Y	SPU—Community Services	2004 on	Ongoing, and through this matrix as well as presentations to TCWOC by implementers
	140	Monit A1.	9-2	Develop and support a voluntary, coordinated watershed-wide Monitoring Panel. SPU recommends that TCWOC develop a subcommittee and invite	P	TCWOC, SPU	TBD	Need to discuss with TCWOC. As part of regularly scheduled TCWOC meetings, City staff will present monitoring

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				appropriate expertise.				programs for questions.
141	Monit A2	9-3	The Monitoring Panel will develop recommendations to improve existing monitoring programs by sharing data, coordinating research and analysis, sponsoring monitor training, and improving protocols.	P	TCWOC, SPU	TBD	Tied to A1 above Recommendations may be considered in light of NPDES permit, budget constraints.	
142	Monit A3	9-4	Establish baseline information for the Thornton Creek watershed.	Y	SPU—Resource Planning/King County		Watershed Assessment Comprehensive Drainage Plan King County monthly sampling for temp, DO, nutrients, fecal, alkalinity at creek mouth; bacteria and temp at Matthews Beach May-Sept; for metals at six storm events; and annual sampling at mouth in Sept. Seattle - Water quality testing at Jackson Park Golfcourse	
143	Monit A4 Storm D3.	9-4 3-15	Evaluate and report on effectiveness of creek restoration projects in the watershed; adapt or modify as necessary.	Y	SPU—Community Services	ongoing	SPU’s creek monitoring team has been evaluating the Jackson Park Golf Course Detention Pond project, the Lake City Way fish ladder (NE 100 th /LCW), the Littlebrook Culvert (NE 125 th St/35 th Ave NE), and the Homewood Park project. The sites are being monitored based on the design goals for each project, including plant survival and structural evaluation. Technical assistance was provided for plant monitoring and as-built creation for the Littlebrook Park project	
144	Monit. A5	9-5	Provide technical information on request for community restoration efforts.	O	SPU/ DPD	TBD	This would need to be jointly looked at by DCLU and SPU.	
145	Monit A6	9-5	Support Citizen Monitoring and Data Gathering for benthic invertebrates, fish	Y	SPU—Community Services	ongoing	Citizens sampled seven sites on Thornton Creek in the fall of 2003. Forty-two samplers attended the training by SPU and participated in the sampling. The benthic data is currently being analyzed, and will be reported back to the samplers in December, 2004. Program to be conducted again in fall 05. Participation in NOAA Fisheries Pre-	

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								spawn Mortality investigation. SPU staff and volunteers have been conducting spawning surveys on Longfellow (since 1999) and Des Moines Creeks in the fall of 2004 in order to assess the amount of mortality in coho and collect tissue samples from affected fish. Des Moines Creek was chosen for daily surveys because it has a relatively large run and a high incidence of pre-spawn mortality.
	146	Monit A7	9-6	Develop an Index of Watershed Integrity (IWI) for Seattle's creeks. Use this index to help the public understand the "state of the creek" in Thornton Creek.	P	SPU	TBD	In planning

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