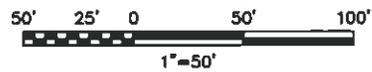
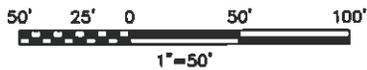


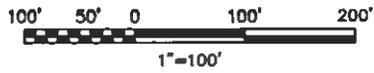
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SKOOKUM WULGE

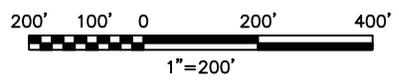


SQUALLY BEACH

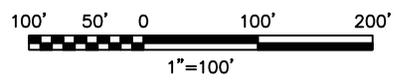
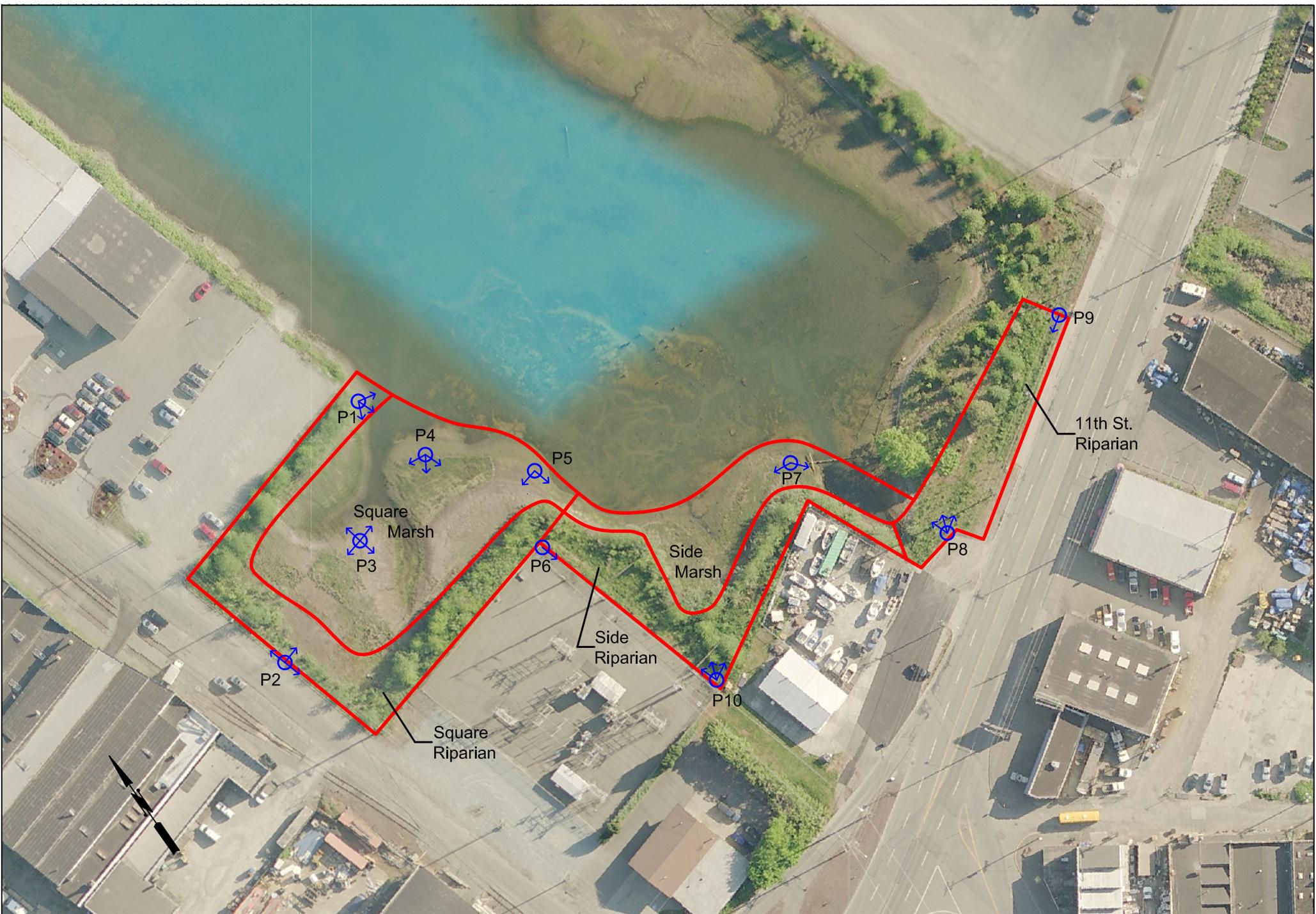


MOWITCH - HEAD OF HYLEBOS





JORDAN/LOWER HYLEBOS MARSH



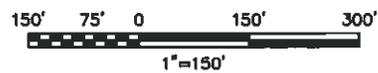
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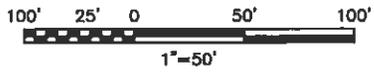
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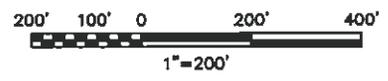
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1"=150'



OLYMPIC VIEW, CITY & WDNR



TAHOMA SALT MARSH



SWAN CREEK

Table 1
ESP Site Record

ESP Site Record: Yowkwala				
Observational Categories	8/6/09	10/8/09	12/3/09	2/9/10
Human Impacts	Yes - Continues to be hang out spot with bonfires and party trash	bonfire, minimal trash, yellow boom on shore line	No sign of recent activity. Minor high tide line floatables	No sign of recent activity. Minor high tide line floatables
Erosion	none noted	none noted	none noted	none noted
Weeds	Heavy along immediate shoreline area - butterfly bush, pepperweed, blackberry, scott's broom	Previous weeds still noted - nightshade added	Previous weeds still noted - Pampas grass added	Previous invasives still noted. Some removal at the north end of site. Curled dock added
Fencing	n/a	n/a	n/a	n/a
Plantings	Low survival of recent plantings due to weather/heat stress	Loss of some shore pine	no new plantings	Plants at south end of site look good (however, dormant)
Flora	Beach plants having most success		gumweed, dune grass, black raspberry noted at N. end of site	Poison oak limits volunteer opportunities
Fauna	Avian species noted	finch, king fisher, crow, coyote	gulls, crow, heron, seals, dog, small avian species	some Avian species, dog, gulls, fish, sea lions, crow
Photo-documentation	Taken	Not taken	Not taken	Taken
	* Limited access due to unsigned access agreement.			

Table 1
ESP Site Record

ESP Site Record: Yowkwala			
Observational Categories	4/22/10	6/24/10	8/31/10
Human Impacts	No recent activity noted; slight amount of trash	Very little trash noted since volunteer event recently occurred	Approximately five firepit areas were found along the shoreline, very close to the vegetation and driftwood. Significant trash was also identified in these areas.
Erosion	None noted	Minor erosion at hillside	A minor amount of erosion was noted in the transition between the beach and upland area at the east end of the site
Weeds	Previous invasives still noted; thistle added	Previous invasives still noted	Previous invasives still present Poison oak should also be noted.
Fencing	n/a	n/a	n/a
Plantings	Blackberry regrowth was noted in the planted area; plants small but alive	Generally good survival from spring/fall plantings, but some did not survive	Generally appears good
Flora	Plants look good; starting to flower and leaf out	Some patches of pickleweed in marsh area	Some jaumea noted in the marsh area along with the pickleweed
Fauna	Little wildlife activity was noted	Crows, bluebird, crane, seagulls, other avian species	Seals, small avian species, shells, dog
Photo-documentation	Not taken	Not taken	Taken

Table 2
ESP Site Record

ESP Site Record: Skookum Wulge				
Observational Categories	8/6/09	10/8/09	12/3/09	2/9/10
Human Impacts	Minor trash	none noted	none noted	none noted
Erosion	Point continues to erode due to wave action	same	same	Point has eroded significantly since the last visit
Weeds	Few native plants - presently primarily blackberry and ivy	Knotweed on south end of site injected in September	small amount of Reed Canary Grass	Same - non associated with newly planted area
Fencing	Repair of perimeter fencing needed when clearing and planting are completed	Repair planned in conjunction with planting	Fence posts sand blasted, repainted and reinstalled with new chain and City locks. Silt fence remains in place	Looked great
Plantings	Planned for October 2009	Planned for November 7	Half of site planted November 7 with mulch - plants look good, survival high	Still looks good
Flora	Few native plants	same	over 700 plants added to northern half of site. Additional planting planned for the spring	Some dunegrass lost to erosion. Moved plants near eroding edge to safe areas of the site.
Fauna	Avian species noted	Avian species	Ducks, gull	crow, gull
Photo-documentation	Taken	Not taken	Not taken	Taken
* Limited access due to unsigned access agreement.				

Table 2
ESP Site Record

ESP Site Record: Skookum Wulge			
Observational Categories	4/27/10	6/25/10	8/31/10
Human Impacts	Minimal trash; car bumper in marsh area; old wood dock on beach	Minimal trash; old wood dock remains on beach	Minimal trash associated with the tide
Erosion	Embankment erosion is continuing	Embankment continues to erode	Embankment continues to erode
Weeds	Blackberry and vetch	Same plus curled dock, white sweet clover, and wild pea	Same, with blackberry and pepperweed noted
Fencing	Silt fence can be removed; not connected in some sections	Silt fence can be removed; continuing to fall down in places	Chain and bollards in good condition. Silt fence still requires removal
Plantings	Minimal plant mortality from fall 2009 planting	Some Oregon grape from fall 09 planting not doing well	Recent plantings doing well with approximately 90% survival
Flora	Generally healthy; bluebells, quince, red flowering currant, and dune grass volunteering; sword ferns showing some stress	Generally healthy; volunteer big leaf maple, soft stem rush, and fireweed	Lots of big leaf maple volunteers in the north area
Fauna	None noted	Immature eagle offshore	Dead sea lion and dead baby seal
Photo-documentation	Not taken	Not taken	Taken

Table 3
ESP Site Record

ESP Site Record: Squally Beach				
Observational Categories	8/6/09	10/8/09	12/3/09	2/9/10
Human Impacts	Clearing from sign to marsh opening	Dumped oyster shells	Adjacent site cleared of blackberry	none noted
Erosion	Minor - not significant	minor	minor	Minor at fence line
Weeds	Minor Blackberry and pepperweed. Knotweed to the north continues to be encroachment concern.	Cord grass identified Knotweed on adjacent site injected in September	Cord grass identified and targeted for removal	Cordgrass removed, knotweed injected and areas will be monitored.
Fencing	Perimeter fencing is good. Wood debris exclusion fencing needs repair (approx. 30')	Fencing still needs repair	Fencing has been repaired. Post now bent	Fencing down and post out. Needs more repair
Plantings	none noted	Plants previously cut near the ed sign - coming back with vigor	none noted	no recent plantings
Flora	All species doing well	same	same	same
Fauna	Avian species noted	none noted	gulls, crow	gull
Photo-documentation	Taken	Not taken	Not taken	Taken
	* Limited access due to unsigned access agreement.			

Table 3
ESP Site Record

ESP Site Record: Squally Beach			
Observational Categories	4/27/10	6/11 and 6/25/10	8/31/10
Human Impacts	Minimal trash	Foot bridge laid across west marsh; a large amount of cardboard fruit boxes with rotting fruit present; other minor trash	Minimal trash
Erosion	None noted	None noted	None of significance
Weeds	Lots of blackberry and dandelion regrowth on berm knotweed, broadleaf plantain, and some vetch	Same species noted, plus St. John's wort, curled dock white sweet clover, and wild pea	Cordgrass noted in many more locations. Also knotweed in middle of riparian area along with the area at the west end of the site, and blackberry.
Fencing	Fencing still down and needs repair or removal	Fencing still needs repair or removal	Fence has been removed and posts remain.
Plantings	No recent plantings	No recent plantings	No recent plantings
Flora	Generally healthy, as before	Generally healthy with some drought stress and some animal damage	All generally healthy. Approximately 60% of roses show evidence of mossy rose gall wasp.
Fauna	Canada geese scat	Crabs, bird feathers, seashells	Small avian species.
Photo-documentation	Not taken	Not taken	Taken

Table 4
ESP Site Record

ESP Site Record: Mowitch				
Observational Categories	8/6/09	10/8/09	12/10/09	2/9/10
Human Impacts	note noted	none noted - minor trash	none noted	minor
Erosion	none noted	none noted	none noted	none noted
Weeds	Small areas of blackberry, phragmites, and pepperweed. Bird's foot trefoil	no new noted	no new noted	Tansy ragwort noted
Fencing	Needs main gate	Main gate replacement if deemed necessary Could remove more goose exclusion	Main gate replacement if deemed necessary	Main gate replacement if deemed necessary
Plantings	none noted	snowberry, rose, cares lygnbyei, goose tongue all doing well	rose doing well. More conifers in the riparian area	rose carex lyngbeii, shore pine doing well.
Flora	Volunteer pickleweed noted	Jaumea, brass buttons	no new noted	no new noted
Fauna	Avian species noted	ducks	Mallard ducks	ducks, gulls
Photo-documentation	Taken	Not taken	Not taken	Taken
	* Limited access due to unsigned access agreement.			

Table 4
ESP Site Record

ESP Site Record: Mowitch			
Observational Categories	4/27/10	6/25/10	8/25/10
Human Impacts	Minimal trash	Minor trash	Minor trash
Erosion	None noted	None noted	None noted
Weeds	Blackberry regrowth, thistle, reed canary grass, vetch, wild anise, and tansy noted in areas	Same, plus wild fennel, curled dock, and white sweet clover	Phragmites in the middle of the site and blackberry
Fencing	Fence in excellent shape	No change	No change - gate still needs repair if necessary
Plantings	Several rose bushes and unidentified shrub with lichen on branches	Spring 09 plantings on benches do not appear to have survived; others doing well	No recent plantings
Flora	Plants look generally healthy; willows, lupine, red flowering currant, Douglas fir, poplar, vine maples, shore pines, horsetails, plantain, sedges, and tufted hair grass noted as doing well	Plants look good, as before; some predation on plantain noted	Plants look generally healthy with some drought stress. Lots of volunteer pickleweed and increased growth on the island marsh area noted. Also a large patch of fleshy jaumea is present near the middle marsh.
Fauna	Canada geese and ducks	Evidence of geese nesting	Butterfly and wasp
Photo-documentation	Not taken	Not taken	Taken

Table 5
ESP Site Record

ESP Site Record: Jordan				
Observational Categories	8/6/09	10/8/09	12/10/09	2/3/10
Human Impacts	Minor trash - recreational trail use	Small sign removed	none noted	none noted
Erosion	none noted	none noted	none noted	none noted
Weeds	Blackberry encroachment on E side of trail. Reed canary grass and purple loosestrife are on-going concerns	same	Blackberry on E side of trail recently cut back by WCC crew	Need to grub Blackberry and place erosion control material
Fencing	Platform structures intact	same	same	same
Plantings	none noted	Needed for spring	Needed for spring in area of blackberry removal on the east side of trail	Planting planned for east side of trail.
Flora	All species are doing well	same	same	lots of buds, indian plum leafing out
Fauna	Beaver evidence. Avian species noted	avian species, heron, otters (?)	chickadee, wren, ducks, dog	beaver
Photo-documentation	Taken	Not taken	Not taken	Taken

Table 5
ESP Site Record

ESP Site Record: Jordan			
Observational Categories	4/28/10	6/14/10	8/25/10
Human Impacts	Makeshift shelter found at the south end of the site made from small alders cut from the site; cottonwood down in same area, damaging other conifers; also, some damage to middle viewing platform noted	Shelter requires removal; plexiglass on information kiosk has been broken on two of the three sides; more damage to viewing platforms; last handrail stolen; some alders cut at about 3 feet high in various places	Alder cutting had been performed by Restoration Logistics in excess of that desired by Trustees. NOAA will provide direction on approach to re-establish these areas. Minor trash noted.
Erosion	None noted	None noted	No erosion noted. Sedimentation present at the upstream entrance.
Weeds	Invasive species noted include scott's broom, reed canary grass, and blackberry	Same as before, plus field bindweed and common teasal	Blackberry and knotweed
Fencing	Damage to middle viewing platform	Same as before	Good
Plantings	No recent plantings	No recent plantings	No recent plantings
Flora	Alder thriving, other plants doing well; some strawberry volunteering at south end	Native plantings doing well despite overabundance of alder; once alder thinning has occurred, replant with shrubs and groundcover; some beaver damage to alders noted	Generally healthy with some drought stress
Fauna	Avian species, beaver evidence, ducks	None noted	Fish, frog, small fish in channels, and a new beaver dam (near PP2)
Photo-documentation	Not taken	Not taken	Taken

Table 6
ESP Site Record

ESP Site Record: Middle Waterway, City				
Observational Categories	8/12/09	10/21/09	12/10/09	2/9/2010
Human Impacts	Minor trash - along roads and high tide line	Large hole and shovel found in upper marsh - minor damage to salt grass establishment	no new noted	minor trash/hole
Erosion	Non-significant	not noted	not noted	minor
Weeds	Small areas of knapweed, blackberry, nightshade, pampas grass, butterfly bush, white sweet clover	no new noted	no new noted	More pampas grass noted
Fencing	Perimeter fencing intact	same	same	same
Plantings	Could use additional riparian plants in areas	Planting proposed in the square marsh area paralleling F Street	Planting proposed in the square marsh area paralleling F Street	Some trees cut under power lines
Flora	Jaumea spreading	Volunteer birch, oak	same	no new noted
Fauna	Avian species noted	small avian species, bunny, gulls, crow	small avian species, ducks, geese	Bunny, dog, gulls
Photo-documentation	Taken	Not taken	Not taken	Taken

Table 6
ESP Site Record

ESP Site Record: Middle Waterway, City			
Observational Categories	4/28/10	6/26/10	8/10/10
Human Impacts	Minor trash; appears someone may have planted irises near the boat facility	Same as before	Minor trash
Erosion	Same as before	Same as before	None noted
Weeds	Reed canary grass, curled dock, thistle, blackberry, and St. John's wort noted	Same as before, plus oxeye daisy and plantain	White sweet clover in the square marsh, and dames rocket near the substation. Knapweed removal needed near the outfall off 11th.
Fencing	Same as before	Same as before	Perimeter fencing intact
Plantings	No recent plantings	No recent plantings	Low survival due to lack of irrigation
Flora	Plants appear generally healthy; lupine, vine maple, wild pea, salmonberry, willows, pickleweed, and saltgrass doing notably well; horsetails are volunteering and doing well	Plants generally healthy, as before; lupine dying out; rose hips, wild pea, and ocean spray are blooming; spruce and oak trees look good; some broken limbs observed	Generally healthy with some heat/sun stress. Fleshy jaumea noted in the square marsh along with continued spread of pickleweed and saltgrass.
Fauna	Rabbit and geese	Dead rodent, monarch butterflies, and dragonfly	Great blue heron, crickets, and small avian species
Photo-documentation	Not taken	Not taken	Taken

Table 7
ESP Site Record

ESP Site Record: Middle Waterway, Simpson				
Observational Categories	8/12/09	10/21/2009*	12/10/09	2/3/10
Human Impacts	Minimal trash. Vagrant activity noted on the south end of the site near 11th Street	Vagrant activity continues. TPD notified	Vagrant activity continues. TPD notified	minor trash
Erosion	none noted	none noted	small area noted in transition area b/t riparian and marsh - exposing metal piece	minor
Weeds	minor pea, st. john's wort, blackberry	no new noted	sumac, pampas grass	pampas grass removed
Fencing	n/a	n/a	n/a	same
Plantings	50%? Mortality due to weather/heat stress	none noted	May need fill-in shrubs or dune grass at toe	Planting planned for spring 2010
Flora	Dry Rose doing well	not noted		no new noted
Fauna	Avian species noted	avian species, gulls	ducks, geese, small avian species	gulls, geese, small avian species, sparrow
Photo-documentation	Taken	Not taken	Not taken	Taken

Table 7
ESP Site Record

ESP Site Record: Middle Waterway, Simpson			
Observational Categories	4/28/10	6/26/10	8/10/10
Human Impacts	Minimal trash; some dog prints on site	Minimal trash	Some indications of loitering activity, but no apparent overnight visitors. Gas cans were noted in the riparian area approximately 30' south of photo point 2.
Erosion	Same as before	Same as before	None noted
Weeds	Same as before	Same as before, plus possible black medic	St. John's Wort, blackberry, and knapweed (purple, near 11th)
Fencing	n/a	No perimeter fencing; goose exclusion fencing in good condition	Same as before
Plantings	Some saltgrass plantings are partially exposed due to tidal impacts; pickleweed appears healthy	Same as before; still doing generally well	Pickleweed and dune grass doing well, although some new dune grass (~60%) munched by rabbits
Flora	Generally healthy; a few trees, particularly madrone, appear stressed; saltgrass is spreading, lupine growing, and pickleweed doing well	Generally healthy, as before	Generally healthy with some heat/sun stress noted. Pickleweed coming in well on outer benches in areas both with and without goose exclusion.
Fauna	Rabbit and goose scat	Rabbit, crows, monarch butterflies, and avian species	Rabbits, great blue heron, and small avian species
Photo-documentation	Not taken	Not taken	Taken

Table 8
ESP Site Record

ESP Site Record: Olympic View, City/DNR				
Observational Categories	8/13/09	10/21/09	12/10/09	2/3/10
Human Impacts	none noted	Bricks uncovered by tidal push of gravels	none noted	none new noted
Erosion	Some noted on west side of salt marsh entrance	same - increasing	same increasing	Fine sand deposited with recent high tide. Some erosional areas near the mouth of the triangle area. More erosion noted near sign - will need to move sign
Weeds	Heavy population of invasives along perimeter goose exclusion	same	Pepperweed, poison hemlock, mustard, blackberry, nightshade removal	St. John's wort
Fencing	Good condition	same	same	same
Plantings	Recent planting of salt marsh - will need to watch for survivability in spring	same	same	same - few hints of plant growth on salt marsh plantings
Flora	Rose doing well	Some heat stress noted. Fungal disease/aphids (?) noted	all riparian doing well	Bunny predation on snowberry
Fauna	Avian species noted. Rabbits and fish also noted	bunny	ducks, gulls, small avian species	bunny, duck, gulls
Photo-documentation	Taken	Not taken	Not taken	Taken

Table 8
ESP Site Record

ESP Site Record: Olympic View, City/DNR			
Observational Categories	4/30/10	6/26/10	8/11/10
Human Impacts	Minor trash	Minor trash	Minor trash
Erosion	Minor erosion; sign has been moved	Minor erosion	No erosion noted. Still push of gravels at mouth.
Weeds	Same as before, plus tansy ragwort	Same as before plus possible knotweed	St. John's wort, pepperweed tansy, blackberry, thistle and dock noted
Fencing	Minor repair needed on south fence; goose exclusion in good condition	Same as before	All in good condition
Plantings	Same as before; limited growth in salt marsh area	Generally same as before, although majority of recently planted maples are showing stress	Low survival for upland plants near the gate
Flora	Generally in good condition; only very minor damage/predation noted	Same as before; two young spruce leaning heavily	Generally in good condition with some drought/heat stress noted. Salt marsh showing minor success of a few species.
Fauna	Nesting geese plus gulls, heron	Geese, nesting gulls	Caspian terns, crow, geese and gulls
Photo-documentation	Not taken	Not taken	Taken

Table 9
ESP Site Record

ESP Site Record: Tahoma Salt Marsh				
Observational Categories	8/12/09	10/21/09	12/3/09	2/3/10
Human Impacts	Continued vandalism to sprinkler system. Minor trash	none noted	none noted minor trash	none noted
Erosion	Some noted associated with logs and mouth	same	same	same
Weeds	Small areas of tansy, nightshade, blackberry, thistle	birds foot trefoil and pea on plants	Thistle removed on island Tansy still spotty throughout	none new noted
Fencing	Good condition	Chinese Reconciliation Park filling has removed fencing on North side	same	same
Plantings	Dry Could use some additional plants on the island.	Plantings proposed for island	Mulching event planned for December 12	Red flowering currant and OR grape showing color. Plantings planned for the island and few in the riparian areas spring 2010.
Flora	Doing well. Salt marsh plants filling in slowly.	same	Sprinklers to be turned off next summer	Sprinklers set to be off
Fauna	Avian species noted. Rabbit	Beaver, killdeer, geese	geese, small avian species	geese
Photo-documentation	Taken	Not taken	Not taken	Taken

Table 9
ESP Site Record

ESP Site Record: Tahoma Salt Marsh			
Observational Categories	4/25/10	6/23/10	8/31/10
Human Impacts	Minor trash	Minor trash	Minor trash
Erosion	None noted	Minimal erosion caused by broken sprinkler	No significant erosion
Weeds	Blackberry, vetch, thistle, and reed canary grass	Same as before	Pepperweed, blackberry, thistle, tansy, and morning glory
Fencing	Same	Same as before	Same as before
Plantings	Pickleweed and saltgrass doing well	Newly planted vine maples look good	Generally good, with 10-20% dead due to heat/weather stress
Flora	Generally healthy; a few plants appear stressed	Same as before	Generally healthy with lots of pickleweed starts. Scirpus maritimus is established. One area of gumweed on toe of Riparian Area E appears dead. Some heat/weather stress.
Fauna	Juvenile fish, deer tracks, seagull carcass	Deer tracks and evidence of deer predation, sandpipers	Deer, raccoon (?) paw print, small avian species, and goose poop on island
Photo-documentation	Not taken	Not taken	Taken

Table 10
ESP Site Record

ESP Site Record: Swan Creek				
Observational Categories	8/19/09	10/21/09	12/16/09	2/3/10
Human Impacts	Trails established by fisherman, social. Some trash noted at north end and south end.	Noted beaver dam removal by (?) neighbor	Less human evidence now that LRSS is closed	Cut/broken vegetation due to trail use.
Erosion	None noted - flow continues to be modified by beaver activity	Pierce Co recently dredged upstream sediment pond	Jute mat to be placed on steep slope areas	Stream turbidity noticed due to heavy rain
Weeds	Heavy areas of blackberry and reed canary grass. Minor areas of scott's broom, morning glory, knotweed	same - also large areas of ivy. Small areas of knotweed injection completed in September	Blackberry and ivy removal in progress - to be followed by spring planting	nightshade and poison hemlock
Fencing	Fair condition. North fencing recently replaced to deter further dumping	Fencing by Lil Red Smokeshack (LRSS) damaged in Federal drug raid.	Fence repair in progress	Fence repaired
Plantings	Minor damage by beaver.	Good survivability at North end slope	Plantings planned for next Spring on slope areas	same
Flora	Great coverage near stream and channels.	Red Osier Dogwood looks great. Upper riparian near Pioneer and the LRSS may need some added shrubs and trees	Sitka spruce doing well where established. Noted large tree down on far side of wetland paralleling RxR tracks.	Indian plum, red flowering currant, and OR grape showing color
Fauna	Beaver. Avian species noted	Great Blue Heron, small avian species, ducks	Dead salmon noted in stream, deer, beaver, hooded merganser	beaver
Photo-documentation	Taken	Not taken	Not taken	Taken

Table 10
ESP Site Record

ESP Site Record: Swan Creek			
Observational Categories	4/28/10	6/25/10	8/11/10
Human Impacts	Some trash, particularly near LRSS	Minor trash; debris on site from demolition of adjacent LRSS	Same as before
Erosion	None noted	None noted	No erosion noted. Some sedimentation near Channel A diversion - spit growing but still passable.
Weeds	Blackberry regrowth noted, along with substantial invasives on island; same species as before, plus Herb Robert, policeman's helmet, thistle, curled dock, vetch, and tansy	Same as before, plus wild pea and dames rocket	Blackberry regrowth along Pioneer noted, along with morning glory, willowherb and small ivy starts
Fencing	Good condition	Fence damaged during demolition of adjacent LRSS; notified Bill Sullivan	Same as before. No repairs have been performed at this time
Plantings	Plantings are doing well	Oregon grape and ocean spray doing well	Some mortality for those with sun/heat exposure - shaded plants doing well
Flora	All generally healthy; some vine maple starts observed; minimal beaver damage noted; supplemental planting on island following invasive removal needed	Good condition; minor stress of some trees noted	All generally healthy with some heat stress and conifers surviving better than shrubs. Trailing blackberry volunteering at the north end.
Fauna	Ducks, snake	Ducks	Bees
Photo-documentation	Not taken	Not taken	Taken