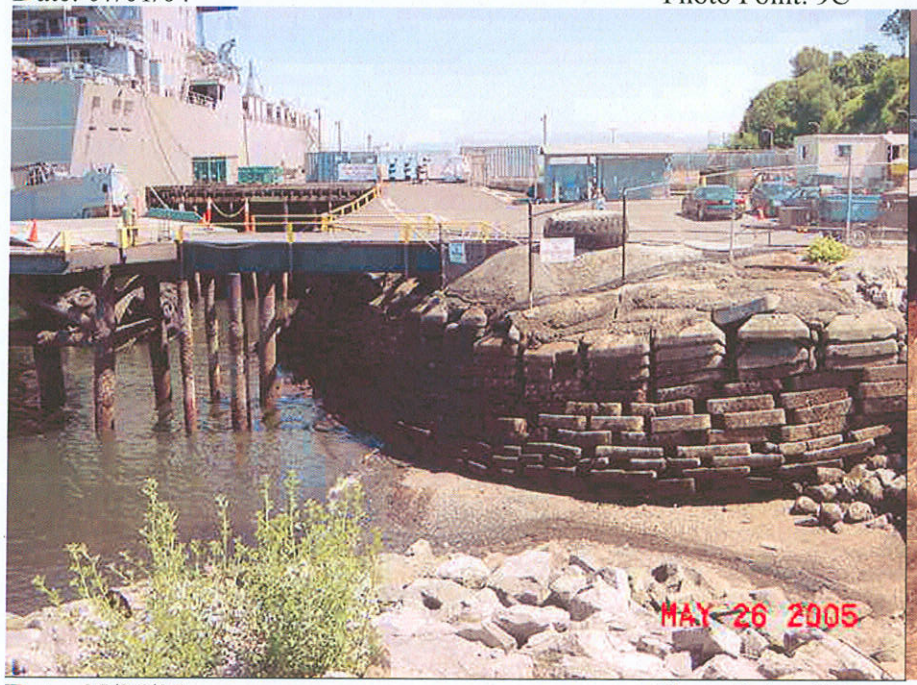
APPENDIX A: Tahoma Salt Marsh – Year 1 to Year 3 Photos

Date: 07/01/04 Photo Point: 9C

Date: 1/10/05 Photo Point: 9C



Date: 05/26/05 Photo Point: 9C

Date: 8/31/06 Photo Point: 9C

APPENDIX A: Tahoma Salt Marsh – Year 1 to Year 3 Photos

Date: 07/01/04 Photo Point: 9D

Date: 1/10/05 Photo Point: 9D

Date: 05/26/05 Photo Point: 9D

Date: 8/31/06 Photo Point: 9D

APPENDIX A: Tahoma Salt Marsh – Year 1 to Year 3 Photos

Date: 07/01/04 Photo Point: 10A

Date: 1/10/05 Photo Point: 10A

Date: 05/26/05 Photo Point: 10A

Date: 8/31/06 Photo Point: 10A

APPENDIX A: Tahoma Salt Marsh – Year 1 to Year 3 Photos

Date: 07/01/04 Photo Point: 10B

Date: 1/10/05 Photo Point: 10B

Date: 05/26/05 Photo Point: 10B

Date: 8/31/06 Photo Point: 10B

APPENDIX A: Tahoma Salt Marsh – Year 1 to Year 3 Photos

Date: 07/01/04 Photo Point: 10C

Date: 1/10/05 Photo Point: 10C

Date: 05/26/05 Photo Point: 10C

Date: 8/31/06 Photo Point: 10C

APPENDIX A: Tahoma Salt Marsh – Year 1 to Year 3 Photos

Date: 07/01/04 Photo Point: 11A

Date: 1/10/05 Photo Point: 11A

Date: 05/26/05 Photo Point: 11A

Date: 8/31/06 Photo Point: 11A

APPENDIX A: Tahoma Salt Marsh – Year 1 to Year 3 Photos

Date: 07/01/04 Photo Point: 11B

Date: 1/10/05 Photo Point: 11B

Date: 05/26/05 Photo Point: 11B

Date: 8/31/06 Photo Point: 11B

APPENDIX A: Tahoma Salt Marsh – Year 1 to Year 3 Photos

Date: 07/01/04 Photo Point: 11C

Date: 1/10/05 Photo Point: 11C

Date: 05/26/05 Photo Point: 11C

Date: 8/31/06 Photo Point: 11C

APPENDIX A: Tahoma Salt Marsh – Year 1 to Year 3 Photos

Date: 07/01/04 Photo Point: 12A

Date: 1/10/05 Photo Point: 12A

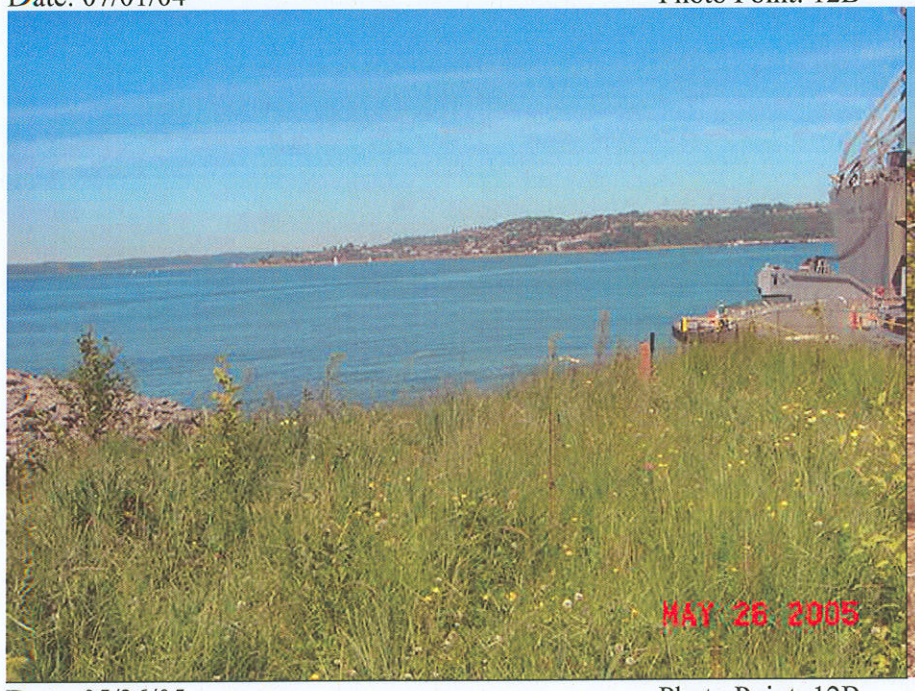
Date: 05/26/05 Photo Point: 12A

Date: 8/31/06 Photo Point: 12A

APPENDIX A: Tahoma Salt Marsh – Year 1 to Year 3 Photos

Date: 07/01/04 Photo Point: 12B

Date: 1/10/05 Photo Point: 12B



Date: 05/26/05 Photo Point: 12B

Date: 8/31/06 Photo Point: 12B

APPENDIX A: Tahoma Salt Marsh – Year 1 to Year 3 Photos

Date: 07/01/04 Photo Point: 12C

Date: 1/10/05 Photo Point: 12C

Date: 05/26/05 Photo Point: 12C

Date: 8/31/06 Photo Point: 12C

APPENDIX A: Tahoma Salt Marsh – Year 1 to Year 3 Photos

Date: 07/01/04 Photo Point: 12D

Date: 1/10/05 Photo Point: 12D

Date: 05/26/05 Photo Point: 12D

Date: 8/31/06 Photo Point: 12D

APPENDIX B

VISUAL INSPECTIONS: FIELD NOTES

Tahoma Salt Marsh Restoration
Monitoring Report Form

Date 7/1/04

Year: (Y1Q1) Y1Q2 Y1Q3 Y1Q4
Y2Q1 Y2Q2 Y2Q3 Y2Q4 3 4 5

Staff Present: D. Dooley
Weather Conditions: sunny Low tide ≈ -3.0
Overall health and vigor of plants: Excellent (Fair) Poor

Qualitative Observations:

	Riparian Area	Salt Marsh Area	Comments
Erosion		some	behind log berms, seems to have equalized since insta
Sedimentation	—	—	
Wildlife	yes	yes	geese, killdeer
Vegetation			grass coming in nicely.
Invasive	yes		thistle on peninsula
Volunteer	yes		weedy species.
Survival (%)	95%	??	sm - so small - can tell better in spring.
Animal Damage	yes		geese eating grass
Disease	—	—	n/a
Trash	—	—	n/a
Vandalism	—	—	n/a.
Large Organic Debris		X	1 piece.

Wildlife Observed: geese, killdeer. GBH seen in previous visit. ☆ fish @ outfall (pic) ellyfish seen @ outfall. Crows / seagulls.

SM Soil/Sediment Quality: soil in sm is firming up nicely.
Odor: n/a
Sheen: n/a
Color: brown
Texture: sandy

Notes: Definitely tell b/t irrigated & non-irrigated areas. (green vs. brown) — Plants OK.
GED is 3/4 done. — Restriping w/of 7/12/04.
Gumweed doing well (pic)
Some willows didn't make it due to tidal inundation
Oceanspray on top of berms where irrigation water ponds have died.
Willows to be planted on top of riparian berms (W)
→ other than these fatalities → veg. looks good!

Photo Points: Disk Count: 1 2 3

1	2A	2B	2C	2D	3A
D2, 3	D2, 1	D2, 2	D1, 30	D1, 31	D1, 26

3B	3C	3D	4A	4B	5A
D1, 27	D1, 28	D1, 29	D2, 4	D2, 5	D2, 7

5B	5C	5D	6A	6B	6C
D2, 8	D2, 9	D2, 6	D1, 25	D1, 23	D1, 24

7	8A	8B	9A	9B	9C
D1, 22	D2, 14	D2, 15	D2, 12	D2, 13	D2, 10

9D	10A	10B	10C	11A	11B
D2, 11	D2, 19	D2, 17	D2, 18	D1, 15	D1, 17

11C	12A	12B	12C	12D	
D1, 16	D1, 18	D1, 19	D1, 20	D1, 21	

Quantitative Measurements: Year 1 3 5

Sediment Stake #	Current Measurement (cm)	Starting Measurement (cm)
1	not measured @ this time	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

Erosion and Sedimentation Key Locations of Concern:

Tidal channel – n/a

Salt marsh substrate – n/a

Soil fill behind log berms: some, looks to be equalizing.

Stormwater swales – n/a

Tidal channel side slopes – n/a

Slopes b/t riparian area and salt marsh – n/a

Riparian mounds – n/a

Fish mix in voids – yes – fish mix appears to have disappeared ≈ 20%

30" Stormwater outfall – no

Tahoma Salt Marsh Restoration
Monitoring Report Form

Date 5/26/05

Year: YIQ1 [Y1Q2] Y1Q3 Y1Q4
Y2Q1 Y2Q2 Y2Q3 Y2Q4 3 4 5

Staff Present: D. Podem
Weather Conditions: sunny 70-80°
Overall health and vigor of plants: Excellent — Fair — Poor

Qualitative Observations:

	Riparian Area	Salt Marsh Area	Comments
Erosion			n/a
Sedimentation			n/a
Wildlife			pigeon, geese.
Vegetation			
Invasive	X		Canada thistle, bog rush
Volunteer		X	brass buttons @ high tide line.
Survival (%)			90% in rip / ↓ in sm
Animal Damage			n/a
Disease			n/a
Trash			n/a
Vandalism	X		Irrigation system head removed, but now fixed.
Large Organic Debris		X	Yes.

Wildlife Observed: pigeon
geese

Soil/Sediment Quality:
Odor: no
Sheen: no
Color: brown w/ dark brown & bright green algae?
Texture: consistent, sandy, coarse gravels.

Notes: needs weeding around individual plants
very few pickleweed.
wh clover, needs to be weed wacked in riprap
Canada thistle.
Shore pine → lots of new candles
Nootka Rose → flowering
Woody debris seems to have lessened since winter monitoring.

Photo Points: Disk Count: 1 2 3

1	2A	2B	2C	2D	3A
D1, 26	D1 25	D1 22	D1 23	D1 24	D1 27

3B	3C	3D	4A	4B	5A
D1, 26	D1, 29	D1, 28	D1, 20	D1, 21	D1, 17

5B	5C	5D	6A	6B	6C
D1, 18	D1, 19	D1, 20	D2, 5	D1, 31	D1, 30

7	8A	8B	9A	9B	9C
D2, 6	D1, 13	D1, 14	D1, 9	D1, 12	D1, 11

9D	10A	10B	10C	11A	11B
D1, 10	D2, 9	D2, 8	D2, 7	D2, 14	D2, 15

11C	12A	12B	12C	12D	
D2, 16	D2, 12	D2, 13	D2, 10	D2, 11	

Quantitative Measurements: Year 1 3 5

Sediment Stake #	Current Measurement (cm)	Starting Measurement (cm)
1		
2		
3		
4		not measured
5		@ this time
6		
7		
8		
9		
10		
11		

Erosion and Sedimentation Key Locations of Concern:

Tidal channel	n/a
Salt marsh substrate	n/a
Soil fill behind log berms	minimal
Stormwater swales	n/a
Tidal channel side slopes	n/a
Slopes b/t riparian area and salt marsh	n/a
Riparian mounds	n/a
Fish mix in voids	Minimal – still visible in voids
30" Stormwater outfall	– low tide viewing – no change

Tahoma Salt Marsh Restoration
Monitoring Report Form

Date 8/30/06

Year: Y1Q1 Y1Q2 Y1Q3 Y1Q4
Y2Q1 Y2Q2 Y2Q3 Y2Q4 3 4 5

Staff Present: WCC - Shane, Melody, Brittany, Sara, Ryan, Jesse
Weather Conditions: Fair, partly cloudy
Overall health and vigor of plants: Excellent Fair Poor

Qualitative Observations:

	Riparian Area	Salt Marsh Area	Comments
Erosion	None	Some	near the inlet of commencement bay and near the storm water swales
Sedimentation	None	Yes	around culverts, behind logs
Wildlife	Yes	Yes	
Vegetation	—	—	
Invasive	Yes	[redacted]	Riparian: Thistle, Himalayan Blackberry, Trailing Buttercup
Volunteer	Yes	Yes	Riparian: Thimble berry, ~~Atriplex Patula~~, willow Marsh: atriplex Patula, salt grass
Survival (%)	85%	80%	
Animal Damage	Yes	Yes	Riparian: Nibbles on tree trunks Marsh: Nibbles on grass
Disease	None	None	
Trash	Yes	Minimal	Riparian: Beer bottles, snack food rapers Marsh: Washed up shoe
Vandalism	Yes	None	Sprinkler heads were tampered with
Large Organic Debris	None	Yes	Marsh: 4inch-diameter branches and 5 logs

Wildlife Observed: Deer, Geese, Rats, Seagulls, Crickets, Hawks, Crabs, Eagles, Pidgeons, Banana Slugs, Bull Heads, Crows

Soil/Sediment Quality:
Odor: normal
Sheen: normal aerobic excretion present
Color: slight redish-brown
Texture: sandy loam

Notes: Large woody debris are destroying goose exclusions

Photo Points: Disk Count: 1 (2) 3

picture #

1	2A	2B	2C	2D	3A
Disk 1-1	D1-2	D1-3	D1-4	D1-5	D1-6

3B	3C	3D	4A	4B	5A
D1-7	D1-8	D1-9	D1-10	D1-11	D1-12

5B	5C	5D	6A	6B	6C
D1-13	D1-14	D1-15	D1-16	D1-17	D1-18

7	8A	8B	9A	9B	9C
D1-19	D1-20	D1-21	D1-22	D1-23	D1-24

9D	10A	10B	10C	11A	11B
D1-25	D1-26	D1-27	D1-28	D1-29	D1-30

11C	12A	12B	12C	12D	
D1-31	D1-32	Disk 2-1	D2-2	D2-3	

Quantitative Measurements: Year ~~1~~ (3) 5

Sediment Stake #	Current Measurement (cm)	Starting Measurement (cm)
1	14.605 cm	
2	10.795 cm	
3	19.685 cm	
4	20.320 cm	
5	19.050 cm	
6	10.795 cm	
7	15.240 cm	
8	16.510 cm	
9	17.145 cm	
10	19.685 cm	
11	Under Water	

Erosion and Sedimentation Key Locations of Concern:

Tidal channel: nothing of Concern

Salt marsh substrate: errosion from culvert flow, esp. @ joint of logs between S5 & S8

Soil fill behind log berms: Yes, at most logs

gravel channels - Stormwater swales: small sediment only in channels; some slight errosion

Tidal channel side slopes: good shape

Slopes b/t riparian area and salt marsh: slight errosion near inlet between P11 & P10

Riparian mounds: good shape

Fish mix in voids: gone

30" Stormwater outfall: